

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it no longer represents its class.

Statement of Significance

This item does not meet the significance threshold.



Figure 65 Shed - Potential (194)

IMPACT AND RECOMMENDATIONS	
Impact	A water and wastewater pipeline is proposed to run along Cleveland Road. It may require the removal of the shed.
Recommendations	The shed is not of heritage significance and does not pose an impediment on heritage grounds.

Table 78 Shed – Potential (194) Impact and Recommendations

5.2.39 Wongawilli Rail Line (195)

The Wongawilli Rail Line is listed on the West Dapto (2010) LEP. See Figure 4 for location.

ITEM DETAILS					
Name of Item	Wongawilli Rail Line (195)				
Other Name/s Former Name/s					
Area, Group, or Collection Name					
Street number	Off end of Wongawilli Road				
Street name	Wongawilli Road				
Suburb/town	Wongawilli		Postcode	2530	
Local Government Area/s	Wollongong				
Location - AMG (if no street address)	Zone	56	Easting	293801	Northing 6182673

Table 79 Wongawilli Rail Line (195) item details

Description

The Wongawilli Rail Line originates within the Colliery land, at the foot of the escarpment. It curves to the south, behind Wongawilli village before aligning with West Dapto Road near the intersection of Shone Avenue. It departs from West Dapto Road at the point where that Road curves to the north. The Rail Line continues roughly east to connect to the South Coast Line near the intersection of the Princes Highway and Kanahooka Road.

The LEP listing covers only the terminal portion within the Colliery lands located on Part Lot 14 of Deposited Plan 255284. This portion was not surveyed as it is within the active mine area and no pipelines will impact that area. A survey of the remaining portion indicated that it had been continually renewed and is unlikely to contain material from the original period of construction.

History

The following history is summarised from Reynolds, D.K. (2001) *The Railways of West Dapto: A history of the railways of the Illawarra Harbour & Land Corporation, the Dapto Smelting Works, the Wongawilli Colliery & Coke Works and Flemings or South Kembla Colliery*. BHP-Billiton Illawarra Coal. Coastline Printing: Unanderra.

In 1907 Andrew Lang opened a tunnel into a coal seam at Wongawilli. It was inspected by the Government's geological surveyor, L.F. Harper, in the same year and was declared to be a different seam to that being mined elsewhere on the south coast. In October of 1908 the *Illawarra Mercury* reported that it was probable that the Wongawilli mine would be purchased by a large company, who would mine the seam on a large scale and were also planning the construction of a branch railway line to connect the mine with the South Coast Railway at Brownsville. A stumbling block to the construction of the branch line was it would have to cross the abandoned Illawarra Harbour & Land Corporation (IH&LC) railway (item 171). It was suggested that an Act of Parliament may be required to overcome this.

In December 1909 the same paper reported that coal was still being mined at Wongawilli. Four teams were employed to haul the coal to the Dapto railway station and in this manner 11 tons a day were being moved. Production had increased by February 1910 with a day and night shift working to extract 200 tons per week. This required 40 horses and 10 bullocks to haul the coal to the station. It did not last long, two weeks later mining had been partially suspended to enable an incline from the mine entrance to a lower level to be constructed.

The Wongawilli Colliery, as it was then known, was bought by G. & C. Hoskins in 1916. The partnership had purchased a blast furnace at Lithgow in 1908, but had discovered Lithgow coal was not powerful enough to work the furnace. The Hoskins' trialled Illawarra coke from the Bulli No. 1 seam and, when it was proved to be successful, searched for a coal lease of their own. Not finding one for the Bulli No. 1 seam, they settled for the Wongawilli Colliery, which mines the Bulli No 3. seam (commonly referred to as the Wongawilli seam). The Wongawilli seam had a higher ash content, but it was later discovered that, when well washed, it produced a superior metallurgical coke than Bulli No. 1 seam.

The Hoskins' undertook significant improvements, including a coal washery and beehive coke ovens at the foot of the escarpment. They also constructed the branch railway line from the new washery and ovens to the South Coast Railway near Brownsville. It is presumed that the problem of crossing the IH&LC line was solved by building over the line. The line was opened on 25 October, 1916 and by November 1917 coke was being railed directly to Lithgow.

To assist in the construction of the branch line, the Hoskins purchased a small 0-4-0 saddle tank locomotive (see Reynolds for details on the history of the engine) and overhauled it, naming it "Wonga". When the branch line came into operation it was discovered that "Wonga" was too small. "Wonga" was retained for shunting purposes in the mine yard.

By 1928 the coke was being directed to the new blast furnace operated by Australian Iron & Steel at Port Kembla. In January 1938 the Port Kembla works opened a by-products coke oven. In response, washed coal was railed from the Wongawilli Colliery and the Wongawilli coke ovens were shut down.

Significance Assessment

Criterion a – historical: The Wongawilli Rail Line is of local historical significance as it demonstrates an important pattern in the development of coal transportation in the Illawarra. As with other collieries in the area, Wongawilli constructed a private line to transport coal to the South Coast Railway line.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: The Wongawilli Rail Line is of local significance as a rare example of a private rail line still in operation.

Criterion g – representative: This item does not meet this criterion as it has lost the principle characteristics of the class.

Statement of Significance

The Wongawilli Rail Line is of local historical significance as it demonstrates an important pattern in the development of coal transportation in the Illawarra. As with other collieries in the area, Wongawilli constructed a private line to transport coal to the main government line. Additionally, it is of local significance as a rare example of a private rail line still in operation.

IMPACT AND RECOMMENDATIONS	
Impact	No impacts will occur within the section of the Wongawilli Railway Line listed on the West Dapto (2010) LEP. A series of water and waste water pipelines will intersect or run parallel to the unlisted portion of the Line. The construction of the pipelines will not impact the significance of the Rail Line, which is vested in the alignment and continuing operation of the Line and not the physical fabric, which has been renewed.
Recommendations	As there is not anticipated to be any impacts to the heritage listed portion of the Line no management measures are required. The remaining portion of the Line does not hold heritage values that will be impacted by the construction or operation of the pipelines. No mitigation or management is required on heritage grounds.

Table 80 Wongawilli Rail (195) Impact and Recommendations

5.3 Concept Approval Area

The following sites are located within the Concept Approval Area. As the pipelines in this area are at a concept stage the information regarding potential impacts to heritage items is general. More specific location details and images of the items are provided in Appendix 3

5.3.1 One-Lane Bridge – Marshall Mount Road, AMBS (61a)

This item is not listed on a heritage schedule. See Figure 9 for location.

Description

c.1930s concrete bridge of one lane of standard design.

History

There are no specific historical details currently available for this site.

Significance Assessment

Criterion a – historical: This item not of historical significance as it does not demonstrate the local pattern of history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion because it is not rare.

Criterion g – representative: This item does not meet this criterion as it has lost the principle characteristics of the class.

Statement of Significance

This item does not meet the threshold for local significance.

Impact

A water pipeline is to be constructed along Marshal Mount Road. The impact depends on how the pipeline is to cross the Creek. If it crosses on a separate structure there is likely to be no impact (visual curtilage is not of significance). If it crosses on by bolting it to the bridge then the impact on this item will be minimal and will not require further assessment.

Management

The bridge is of a standard design and holds limited significance. No management, on heritage grounds, is required.

5.3.2 One-Lane Bridge – Marshall Mount Road, AMBS (61b)

This item is not listed on a heritage schedule. See Figure 9 for location.

Description

Two modern concrete bridges of two lanes. Probably mis-identification by AMBS of the previously recorded HLA bridge (61a).

History

There are no specific historical details currently available for this site.

Significance Assessment

Criterion a – historical: This item not of historical significance as it does not demonstrate the local pattern of history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion because it is not rare.

Criterion g – representative: This item does not meet this criterion as it has lost the principle characteristics of the class.

Statement of Significance

This item does not meet the threshold for local significance.

Impact

A water pipeline is to be constructed along Marshal Mount Road. The impact depends on how the pipeline is to cross the Creek. If it crosses on a separate structure there is likely to be no impact (visual curtilage is not of significance).

If it crosses on by bolting it to the bridge then the impact on this item will be minimal and will not require further assessment.

Management

The bridge is not of heritage significance and does not require heritage management.

5.3.3 Marshall Mount Public School and Residence (62)

This item is listed on the 1990 Wollongong LEP. See Figure 9 for location.

Description

The Schoolhouse is a weatherboard single storey building with a corrugated iron roof. The adjacent school masters residence is of the same construction.

History

The schoolhouse was constructed in 1897 on the former site of the first Methodist Church.

Significance Assessment

Criterion a – historical: The School is of local historical significance as a demonstration of education in the Illawarra.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item is of local social significance due to its strong association with the community of Marshall Mount over an extended period of time.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: The School is of local significance as an excellent representative example of a late 1890s school and associated residence.

Statement of Significance

The School is of local historical significance as a demonstration of education in the Illawarra. Additionally, the School is of local significance as an excellent representative example of a late 1890s school and associated residence.

Impacts

Water pipeline is planned to be constructed along Marshall Mount Road. Construction work may impact on both heritage items as they are within 7 m of the property boundary on Marshall Mount Road.

Management

The best option for construction is for the route to be located along the southern side of Marshall Mount Road. Potential damage caused by vibration during construction will require management.

5.3.4 Marshall Mount Community Hall (63)

The Hall is not listed on a heritage schedule. See Figure 9 for location.

Description

The Marshall Mount Community Hall is located adjacent to Marshall Mount Public School and Schoolmaster's Residence. It comprises a rectangular, single storey, corrugated iron clad shed elevated on timber and brick foundations. The roof is a gable constructed from a timber frame and corrugated iron sheeting. Both the walls and roof of the structure have been replaced sympathetically to match the original fabric. A lean-to with a skillion roof is situated at the front and rear of the hall. Three small louvered windows feature at the front elevation. At the rear of the hall is located a small storage shed and bitumen tennis court enclosed by a fence of chicken wire and timber. Timber posts at the front of the property indicate the presence of a previous fence.

History

The Marshall Mount Community Hall was constructed in 1953 for use by the small community of farmers and their families residing on the properties at Marshall Mount. It continues to serve as a function centre to this day and holds regular dance nights, social gatherings and other functions.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the courses or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item is of local social significance due to its strong association with the community of Marshall Mount over an extended period of time.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The Marshall Mount Community Hall is of local social significance due to its history and strong association with the community of Marshall Mount over an extended period of time, from the mid-twentieth century through to the present day.

Impacts

Water pipeline is planned to be constructed along Marshall Mount Road. Construction work may impact on both heritage items as they are within 7 m of the property boundary on Marshall Mount Road.

Management

The best option for construction is for the route to be located along the southern side of Marshall Mount Road. Potential damage caused by vibration during construction will require management.

5.3.5 Homestead and former Dairy – Willow Deane (65)

This item is not listed on a heritage schedule. See Figure 9 for location.

Description

Site comprises a homestead, modern horse stables, track and outbuildings associated with a former dairy. The homestead is an extensive single storey L shaped building constructed c.1930s-1940s of weatherboard. A concrete verandah features on the front and eastern sides. The exterior has had extensive renovations – the current cladding, roof and window shutters are modern.

Elements of the dairy have been extensively modified for use in horse training.

History

There are no specific historical details currently available for this site.

Significance Assessment

Criterion a – historical: This item is of historical significance on a local level as it provides evidence of an original early 19th century rural-residential homestead and associated dairy, which were important in contributing to the development and history of the local area.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this item as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item is of local research significance and potential in relation to the archaeological deposits potentially related to the original homestead.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it no longer demonstrates the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

Willow Dene is of local historical and research significance. Historically, it provides evidence of the growth and economic prosperity brought to the Illawarra by the dairy industry. Willow Dene and the potential archaeological deposits associated with the Homestead could provide information regarding lifeways in the Illawarra during the establishment and operation of the dairy industry.

Impact

Water pipeline and Wastewater pipeline are planned to be constructed along Marshall Mount Road. A second Wastewater pipeline is to be constructed on the southern side of Duck Creek.

There will be no impact on the homestead and dairy from either of these constructions as the buildings are approximately 379 m from the boundary fence.

Management

No management is required as the associated structures are well outside the 25 m pipeline corridor.

5.3.6 Willowvale (66, 67)

This item is not listed on a heritage schedule. See Figure 9 for location.

Description

When recorded by HLA in 2006, the "Willowvale" site comprised a modern homestead, the original homestead, and outbuildings associated with a former dairy. The original homestead was not in use and was deteriorating. It was constructed in three phases; the timber rear section comprised a one-room cottage constructed c.1900s. This section previously had a brick chimney and stove, but was replaced due to its unstable condition during the 1950s-1960s. The front elevation and verandah was added c.1930s and was constructed using weatherboard and makeshift cladding from timber crates. This section had three rooms. The projecting room has been lined with newspaper (dated 1939). A brick and timber lean-to/store at the rear of the homestead had an early shaft cutter. Adjacent the homestead was a corrugated iron shed with a flat roof constructed in three parts.

A site inspection in February 2011 established that the original homestead has collapsed since the HLA recording was conducted in 2006.

A more recent complex of dairy buildings is located to the west of the original homestead and features sheds, garages, and holding yards. An adjacent well has also been filled in with concrete.

History

There are no specific historical details currently available for this site.

Significance Assessment

Criterion a – historical: This item is of historical significance on a local level as it provides evidence of an original early 19th century rural-residential homestead and associated dairy, which were important in contributing to the development and history of the local area.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this item as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item is of local research significance and potential in relation to the archaeological deposits potentially related to the original homestead.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it no longer demonstrates the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

This item is of historical significance on a local level as it provides evidence of an original early nineteenth century rural-residential homestead and associated dairy, which were important in

contributing to the development and history of the local area. As the item has not been maintained and has fallen into a state of disrepair its heritage values have been compromised.

Impacts

Water pipeline is planned to be constructed along Marshall Mount Road. A second wastewater pipeline is to be constructed parallel to Marshall Mount Road, within the Willowvale curtilage. Two feeder pipelines, both to the south of the historic buildings, connect into the pipeline along Marshall Mount Road. One of the feeder pipelines has the potential to impact the modern homestead located to the south of the historic buildings. This building has no heritage value. The most northern pipeline will be about 20 m from the site of the oldest buildings and construction is therefore unlikely to impact them.

Management

A review of the design in detail would help in siting the wastewater pipelines so as to minimise construction impacts in this area.

5.3.7 House and Dairy – Fairview (68)

This item is not listed on a heritage schedule. See Figure 9 for location.

Description

“Fairview”, also known as “Oakvale Dairy Co.”, is a Victorian weatherboard cottage in a rural setting. It has a hipped roof and bull nose verandah, which may have been a subsequent addition. It has 12 sash pane windows in a symmetrical arrangement. The homestead has been added to, modified, and extended over the years, although most of this has been sympathetic.

Several outbuildings and other items are associated with the cottage, including a corrugated iron tank, filled with concrete to a depth of 60cm and containing stones and old fencing posts.

A hayshed is also present at the site, made of corrugated iron built on packed earth and stone on a small rise. There are stalls for feeding a total of 17 cows. According to the property owner they used to bring the cows down to be fed after milking at this location until the herd got too large to double handle. The superstructure is constructed of dressed timber, and the supporting pillars of bush timbers. It has a gabled corrugated iron roof.

History

‘Fairview’ was first occupied by William and Jane Thomas in 1875. At the time the property comprised 190 acres. The house often hosted visiting Ministers. Lucerne was successfully grown on the property for many years. Dairying cattle kept on the property included milking Shorthorns, which were first established on Cole bloodlines, and then afterwards bulls from O’Gorman’s Stud were used. William Thomas died in 1912 and his wife Jane in 1924. They are both buried at Marshall Mount Cemetery.

Significance Assessment

Criterion a – historical: This item is of local historical significance as it is good extant example of a rural Victorian cottage, providing evidence of early occupation and dairying in the outer Albion Park region and also demonstrating change through time with sympathetic variations and modifications to the structure made in subsequent years.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item is of local aesthetic significance as it is a good example of a Victorian weatherboard cottage with subsequent modifications.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item is of local representative significance as it is a good example of a Victorian weatherboard cottage with subsequent modifications which are sympathetic to the original structure.

Statement of Significance

This item is of local historical significance as it is good extant example of a rural Victorian cottage, providing evidence of early occupation and dairying in the outer Albion Park region and also demonstrating change through time with sympathetic variations and modifications to the structure made in subsequent years. This item is also of local aesthetic and representative significance as it is a good extant example of a Victorian weatherboard cottage with subsequent modifications which are sympathetic to the original structure.

Impacts

A water pipeline is planned to be constructed along Marshal Mount Road. It is 85 m from the boundary on Marshal Mount Road to the nearest item of heritage significance (the Homestead and Garden) so these works will not be impacted by the water pipeline.

Wastewater pipelines are proposed to be constructed in front of the house and between the dairy and the feed shed. It is likely that there will be direct and vibration impacts from the construction of these two pipelines.

Management

Given the heritage significance of the buildings and dairy buildings, it is recommended that the wastewater pipelines be carefully routed to avoid impact on these items. If this is not possible it is recommended that the items, within the broader context of the complex, be archivally recorded prior to demolition, that archaeological monitoring be undertaken during construction. The impact of vibration to the structures will also require management if they are still extant during construction.

5.3.8 Moreton Bay Fig & Coral Tree (69)

This item is not listed on a heritage schedule. See Figure 9 for location.

Description

The site, as described by HLA (2006), consists of a large Coral Tree and a Moreton Bay Fig. During the Field Survey by AECOM a Peppercorn Tree was also noted. The trees stand approximately 60 m from the boundary fence and back onto a creek.

History

No specific historical information is available, however, Coral Trees, Moreton Bay Figs and Peppercorn Trees are frequently associated with sites of human habitation.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the courses or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this item as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: The trees are potentially indicative of former homestead or hut site. Should archaeological relics be associated, they are of local significance for their ability to contribute to our understanding of the settlement and occupation of the Illawarra.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it no longer demonstrates the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The trees are potentially indicative of former homestead or hut site. Should archaeological relics be associated, they are of local significance for their ability to contribute to our understanding of the settlement and occupation of the Illawarra.

Impact

A water and wastewater pipeline are planned to be constructed along Marshal Mount Road. There will be no impact on these trees as they are 50 m from the boundary of Marshal Mount Road.

Management

No management is required as the trees are well outside the 25 m pipeline corridor.

5.3.9 Culvert (72)

This item is not listed on a heritage schedule. See Figure 9 for location.

Description

The culvert spans a drainage channel between Marshall Mount Road and a c.1960s house. It is constructed of a concrete pipe, which has been cemented in place and the edges decorated with cobbles.

History

No specific historical information is available.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the courses or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this item as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it no longer demonstrates the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The culvert does not meet the significance threshold.

Impacts

A water pipeline is planned to be constructed along Marshal Mount Road and if constructed on the northern side of Marshall Mount Road the culvert will be destroyed.

Management

The best option for construction is for the route to be located along the southern side of Marshall Mount Road. However, the culvert holds limited historical significance and the impacts could be mitigated through archival recording prior to demolition.

5.3.10 Penrose Homestead, Garden and Dairy (73, 74)

Penrose is listed on the 1990 Wollongong LEP, the Illawarra Regional Environmental Plan, the Register of the National Estate and the National Trust Register. See Figure 6 for location.

Description

Access to Penrose during the Field Survey was limited and this description is therefore taken from HLA (2006).

The site comprises the original Colonial Georgian style homestead, garden and dairy outbuildings. The homestead is a symmetrical single storey building with a hipped roof and verandah on three elevations. There is a two-room attic, including projecting attic windows (AECOM note: this is a later insertion). The roof is tiled in slate and the original brickwork is face sandstock brick. Originally flagged sandstone, the verandah now has modern tiles in part. New brick stumps have been installed to support the front verandah (AECOM note: the verandah on the southern side is a modern addition). Opening onto the verandah is an asymmetrical arrangement of paired French doors alternating with twelve pane sash windows and nine pane glazed doors to the end verandah rooms. Internally the house contains well-detailed grained joinery to the chimney pieces, doors and built in cupboards as well as some fine original furniture including four post bed. Modern additions have been made to the original structure including the construction of rear timber decking. A solar panel has been installed on the roof.

A detached brick kitchen with stone flagged floor and large brick barn with a timber-shingled roof are located at the rear of the homestead. In front of the house is a garden containing many important nineteenth century plants and shrubs including ornamental figs.

There are several surviving dairy buildings including farm sheds, holding yards and a concrete silo. These buildings post date original homestead and are most likely 20th century.

AECOM also noted that the dairy buildings were located at the front of the house, which is unusual. To the south of the house are a range of what appeared to be holding yards and possibly a chicken coop, however, access for a closer inspection was not available. It would also appear that the garden has been significantly altered (removed) since the RNE listing and significance on this count is no longer valid.

History

The land was originally granted to Evan Robert Evans in 1847. Evans traded in cattle and was partners with Henry Osborne. Evans had the homestead constructed in 1852 by stonemason William James from bricks made on the property. The Evans family and their descendants occupied the property until 1973 (HLA 2006).

Significance Assessment

Criterion a – historical: Penrose is of local significance as it provides evidence of and is associated with the establishment of settlement in the Illawarra.

Criterion b – associative: This item does not meet this criterion as it does not demonstrate a strong or special association with a person or persons of importance in state or local history.

Criterion c – aesthetic: This item is of local aesthetic significance as a Georgian style homestead.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item is of representative significance as it provides excellent example of a Georgian style homestead.

Statement of Significance

Penrose is of local significance for its historical, aesthetic and representative values. Penrose is associated with the early development of the area and the development of the economic base of the Illawarra. The homestead is of aesthetic and representative value as an aesthetically pleasing Georgian style homestead.

Impacts

A Wastewater pipeline is planned to run on a east-west axis immediately south of the main house (it actually looks like it may go through it but this may be a drafting matter). There are potentially construction impacts from the Wastewater pipeline. The construction may require the demolition of the animal holding yards to the south of the house.

Management

Given the heritage significance of the buildings at Penrose, it is strongly recommended that the wastewater pipeline be routed at least 50 m from the house. This will lessen the likelihood of encountering archaeological deposits associated with the Homestead. Impacts to the Homestead are not acceptable. It is recommended that closer examination of the area be undertaken once the hostility of the owners has been overcome to determine whether the animal holding yards are of a level of heritage significance that would warrant retention. Vibration impacts to the Homestead will also require management.

5.3.11 Albion Park Council Chambers (84)

This item is not listed on a heritage schedule. See Figure 12 for location.

Description

The original Council Chambers is a weatherboard building in Neo-Gothic style. The roof line has a steeply pitched intersecting gabled roof of corrugated iron, which is still visible behind the post-WWII 'Moderne' style brick addition to the facade. The addition has a central door, flanked by windows on either side. The facade also includes a clock and the Council crest.

History

The opening of the Albion Park Railway station in 1891 saw a shift in the business focus of the area and as a result the Shellharbour Municipal Council moved to the Tongarra Road site in 1896. The Council met for the first time in the building on 23 December 1897. The 'Moderne' style brick office was added to the front of the building in 1952 (Hynd 2004:14). Council no longer occupies the building.

Significance Assessment

Criterion a – historical: Albion Park Council Chambers is of local historical significance as it illustrates the course of civic life in Shellharbour. The move of the Chambers demonstrates changing modes of transport and economic basis of the area. The Chambers also demonstrates the expansion of local government services from the late 19th century onwards.

Criterion b – associative: The Albion Park Council Chambers is of local significance for its association with the Mayors and Councillors who have served the Shellharbour community from 1897.

Criterion c – aesthetic: This item does not meet this item as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item is of local social significance as it has a strong and special association with the community of Albion Park as the centre of civic life from 1897 until the recent past.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it no longer demonstrates the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

Albion Park Council Chambers is of local historical, associative and social significance as the centre of civic life within the Shellharbour Municipal Council from 1897 until the relatively recent past. The Chambers is strongly associated with the Mayors and Councillors who have served the local community.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item. The Council Chambers are located on the property boundary.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.12 Albion Park Court House (85)

The Court House is listed on the 2000 Shellharbour LEP and the Illawarra Regional Environmental Plan. See Figure 12 for location.

Description

The Albion Park Courthouse has an ‘L’ shaped footprint and is constructed of red brick in the Federation style. Hynd (2004:15) describes it as having a terracotta tiled transverse ‘Dutch’ gable roof. Detailing includes exposed rafter in eaves overhang, roughcast stucco on chimneys and under eaves to contrast face red brick walls, a centred arched doorway, and gable end roof ventilators.” A separate “pavilion” stands to the side and is connected to the original structure via an entrance and walkway.

History

The first Court of Petty Sessions was held on 21 December 1894 in the house of John Russell at 100 Tongarra Road. The Court House was opened in 1908, having been designed by Walter Liberty Vernon and built by Dulwich Hill builder Frederick Lemm. The first magistrate was S. Alexander and Gabriel Timbs as Baliff.

Significance Assessment

Criterion a – historical: Albion Park Court House has strong associations with the establishment of law and order in the area, and the overall development of Albion Park township as a civic centre from the late 19th into the early 20th centuries (Hynd 2004:15).

Criterion b – associative: This item does not meet this criterion as it does not demonstrate a strong or special association with a person or persons of importance in state or local history.

Criterion c – aesthetic: Albion Park Court House is a fine example of Edwardian public architecture and the only remaining example of public building from the Federation period in Albion Park.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item is of local significance as the only remaining public building in the Federation style.

Criterion g – representative: This item does not meet this criterion as it no longer demonstrates the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The Albion Park Court House is of local historical, aesthetic and rarity significance. The Court House develops the narrative of the establishment of Albion Park as a civic centre. It is a fine example of Edwardian public architecture and is the only one of its type left in the area.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.13 Albion Park Post Office (86)

This item is not listed on a heritage schedule. See Figure 12 for location.

Description

The Post Office is a corrugated iron building with a high pitched roof and an unsymmetrical gabled entrance. The building is set on a foundation of red bricks.

History

The first Post Office operated from Robert Popple's store and commenced in 1861. James Grey took over the Post Office functions in 1863, but it remained within the store. In 1874 Albion Park Public School teacher John Wilson became the post master. Wilson partitioned a small area off one of the class rooms for the operation of the Post Office. The current Post Office opened on 10 July 1895, the Government having purchased the land five years previously. The first Postmistress was Mrs Rosie Long. In 1913 William Harris became the Postmaster and remained as such until his death in 1926. The Harris family continued their association with the Post Office by working in it or as contractors to carry the mail between the Post Office and the Railway Station (Hynd 2004:16).

Significance Assessment

Criterion a – historical: Albion Park Post Office is associated with the commercial growth of Albion Park.

Criterion b – associative: This item does not meet this criterion as it does not demonstrate a strong or special association with a person or persons of importance in state or local history.

Criterion c – aesthetic: Albion Park Post Office retains its overall form and is tangible evidence of a major community facility. It continues to be part of the Tongara Road streetscape and civic collection of building dating from a similar era (Hynd 2004:16)

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it no longer demonstrates the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The Albion Park Post Office is of local significance for its historical and aesthetic values. The Post Office is associated with the commercial growth of Albion Park and contributes to the streetscape, together with the surrounding buildings.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.14 Albion Park School and Residence (88)

Albion Park School and Residence is listed on the 2000 Shellharbour LEP.

Description

Albion Park School is a late nineteenth century brick building with high, small, sash paned windows, stone window sills, and a corrugated iron medium pitched gabled roof with timber finial. The former school residence is an elegant Victorian structure with Italianate styling, and features an asymmetric facade, including a square bay under the gable with narrow, twin sash windows, a detached skillion verandah, a rendered brick and hipped roof, and street facing gable clad in corrugated iron. This building is situated approximately 12m from the boundary fence. Together these buildings are unique in the Shellharbour Local Government Area.

History

The Albion Park School and former residence site was purchased from Mrs Esther Matilda Taylor (nee Hughes) in 1882 for £500. Previously a school had operated at Terry Street, Albion Park, out of an 1872 weatherboard schoolhouse, however it was found to be in a dilapidated condition and unsuitable for educational purposes, necessitating the new Albion Park school on Tongarra Road. The school was officially opened by the Minister for Public Instruction F.B. Suttor on 31st January 1893, accompanied by G.W Fuller. The school building accommodated 88 students. The total cost for the construction of the school and residence was £2,050.

Significance Assessment

Criterion a – historical: Albion Park School and Former Residence are of local historical significance as they have strong associations with the commercial, educational, and social development of Albion Park from the late nineteenth century. The continuous use of these buildings since their construction in 1892 as an educational institution further contributes to their significance.

Criterion b – associative: This item does not meet this criterion as it does not demonstrate a strong or special association with a person or persons of importance in state or local history.

Criterion c – aesthetic: This item is of local aesthetic significance as both the School and Former Residence are excellent examples of late nineteenth century architecture, and are the last remaining examples of this architectural style in the local area.

Criterion d – social: This item is of local social significance as it has a strong and special association with the community of Albion Park which has endured for over a century as the school has remained in use as an educational institute for almost 120 years.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item is of representative significance as it provides excellent examples of late nineteenth century architecture, which are the last remaining examples of this architectural style in the local area

Statement of Significance

Albion Park School and Former Residence are of local historical significance as they have strong associations with the commercial, educational, and social development of Albion Park from the late nineteenth century. The continuous use of these buildings since their construction in 1892 as an educational institution further contributes to their significance. The school and former residence are also of aesthetic, representative, and rarity significance on a local level as they are excellent examples of late nineteenth century architecture which are unique in the local area, as they are the last remaining examples of this architectural style. Albion School and Former Residence is also of local social significance as it has a strong and special association with the community of Albion Park which has endured for over a century as the school has remained in use as an educational institute for almost 120 years.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.15 Former E, A & S Bank (116)

The Bank is listed on the 2000 Shellharbour LEP. See Figure 12 for location.

Description

Hynd (2004:13) describes the Bank as being “largely intact and is a precious and rare example of 19th century commercial architecture in the area.” The building is of rendered local blocks and has a transverse gabled roof of corrugated steel. The gable is decorated with a finial and the roof line is punctuated by multiple moulded chimneys.

History

With the construction of the railway line to Albion Park and the subsequent decline in shipping caused the English, Scottish and Australian Bank to relocate from Shellharbour to Albion Park. The Bank operated from leased premises from its relocation in 1884, originally as an agency and then as a branch from 1890. The building was extended in 1896 to provide a residence for a married manager.

Significance Assessment

Criterion a – historical: The English, Scottish and Australian Bank is associated with the commercial growth of Albion Park.

Criterion b – associative: This item does not meet this criterion as it does not demonstrate a strong or special association with a person or persons of importance in state or local history.

Criterion c – aesthetic: The English, Scottish and Australian Bank is a rare and aesthetically distinctive 19th century commercial building.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: The English, Scottish and Australian Bank is of local significance as a rare example of 19th century commercial architecture.

Criterion g – representative: This item does not meet this criterion as it no longer demonstrates the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The English, Scottish and Australian Bank is of local historical, aesthetic and rarity significance. The Bank has strong links to the commercial growth of Albion Park, becoming the Municipal Council's bank after the move from Shellharbour. It is an aesthetically pleasing building and is also a rare surviving example of 19th century commercial architecture.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.16 Harris' Garage (124)

This item is not listed on a heritage schedule. See Figure 12 for location.

Description

Harris' Garage is a bessa block style building with flat roof and a tiered facade. The left side of the facade is dominated by large horizontal roller doors to allow car access, with the right side has a door flanked by windows.

History

William G Harris, son of the Post Master, ran a motor for hire business from the Post Office after he purchased a 'Hupmobile' in around 1918. Following on from the success of his business, he purchased two blocks of land across the road from the Post Office and built a garage for the car. He subsequently expanded and began doing repair work on other people's cars and selling petrol. The Garage became a family business, with William's two sons apprenticed to the Garage between 1945 and 1950. A further expansion of the business was a bus service to the Tongarra Coal Mine.

In 2003, WG Harris and Sons Pty Ltd celebrated 80 years of continual service to the town of Albion Park, at the original site and still from the original building (Hynd 2004:35).

Significance Assessment

Criterion a – historical: Harris' Garage is of local historical significance, having been operated by the same family on the same site for 80 years.

Criterion b – associative: Harris' Garage is of local associative significance, being associated with the Harris family, who have served the local community as Post Masters and Mechanics and had a high profile within it for nearly 100 years.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This is only known example that demonstrates how service stations have evolved from their initial era and how technology and multi-producer pumps have changed.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

Harris' Garage holds local historical, associative and research significance. The Garage has served the local community for 80 years, operated by the same high profile family. It is the only known example of the evolution of service stations from the inter-war period to the present.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.17 House, 100 Tongarra Road (131)

This item is currently not on a heritage schedule. See Figure 12 for location.

Description

A weatherboard cottage with a steep pitched roof and a broken back wrap around verandah. The two side verandahs have been unsympathetically enclosed. The windows have been replaced with aluminium and there has been the introduction of some unsympathetic materials.

History

This house held the first Court of Petty Sessions to be run in Albion Park in 1894. The house was then owned by John Russell. From around 1911 until 1916, when the Russell estate was subdivided following his death, the house and Blacksmith shop were leased by Oliver Wilson. Wilson continued to lease the property from Mrs. Sarah McGill. Hynd (2004:9) reported in 2004 that members of the Wilson family still occupied the home.

Significance Assessment

Criterion a – historical: The House is of local historical significance as the site of first Court of Petty Sessions.

Criterion b – associative: The House is of local associative significance as it has strong associations with the Russell and McGill families, important Pioneers in the area. The site also has trade associations with Mr Oliver Wilson and the 'smithy' industry in the early 1900's.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The House at 100 Tongarra Road is of local historical and associative significance. It was the location of the first Court of Petty Sessions in Albion Park. It has strong associations with early pioneering families, the Russell's, McGill's and Wilson's.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.18 House, 102 Tongarra Road (132)

This item is currently not on a heritage schedule. See Figure 12 for location.

Description

The House is of weatherboard construction in a transitional Federation bungalow style. It has an asymmetrical L shaped facade and a corrugated iron gabled roof.

History

The land was part of the Russell Estate subdivision and was purchased by the Hazelton family, who were well-known within the local community as store operators. The Hazelton store was originally located in the driveway of the property, but was later moved to Horsley and a new store was constructed across the road from the House.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: The House is of local associative significance as the residence of the Hazelton family, well known and regarded in the local community as store operators.

Criterion c – aesthetic: The House is of local aesthetic significance being an excellent example of a transitional inter-war bungalow.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The House at 102 Tongarra Road is of local significance for its associative and aesthetic values. The House was the residence of the Hazelton family, well known and regarded in the local community as store operators. It is also an aesthetically pleasing example of a transitional Federation bungalow cottage, once common in the Shellharbour area.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.19 House, 111 Tongarra Road (133)

This item is currently not on a heritage schedule. See Figure 12 for location.

Description

The house is of dressed stone blocks and is now painted. It is symmetrical and in a Georgian style, a central door flanked by a window on each side and with a hipped roof. The front verandah is detached and also hipped.

History

The House was built in 1880 by pioneer Gabriel Timbs. It passed onto the Sawtell, Crow and King families (Hynd 2004:11).

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: The House is of local aesthetic significance being an excellent example of a Victorian interpretation of the Georgian style. The House makes a significant contribution to the Albion Park streetscape.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Criterion f – rarity: The House is of local significance as a rare example of a Victorian mason house in the Georgian style. The style was once prominent in Albion Park.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The House at 111 Tongarra Road is of local aesthetic and rarity value. The House is an excellent example of a Victorian interpretation of the Georgian style. The House makes a significant contribution to the Albion Park streetscape. The House is of local significance as a rare example of a Victorian mason house in the Georgian style. The style was once prominent in Albion Park.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.20 Logbridge Farm (138)

Logbridge Farm is listed on the 1990 Wollongong LEP. See Figure 9 for location.

Description

Logbridge Farm could not be located during Field Survey. There is no physical evidence of the former farm and its exact location is unclear.

History

Logbridge Farm was the name given to a farm run by the YMCA for the purpose of conducting child development camps. It used buildings, described as cottage, barn, hall and workshop on what is now the Yallah TAFE site. When TAFE proposed to occupy the area and demolish the buildings due to their unsafe condition there was considerable protest resulting in a statement to Parliament on 24th September 1996. It seems that the buildings were demolished shortly after.

There is a building shown in this location in the 1929 Kiama map and is shown on the 1949 aerial image. 'Logbridge Farm' is located on the current Albion Park 1:25,000 map which dates from 1986 and presumably is the source of the AMBS listing.

There is however no physical evidence on the site and there is low archaeological potential as the site of the buildings has been converted into a field for training in green keeping and turf culture which would have required site levelling and construction of the turf areas.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item is of local research significance for its potential to reveal details regarding the operation of Logbridge Farm through potential archaeological deposits associated with the site.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

Logbridge Farm is of local research potential as archaeological deposits relating to the site may still be present.

Impact

A water pipeline is proposed for construction along Marshall Mount Road. It is not anticipated that any archaeological remnants remain, particularly not within the road reserve.

Management

No management is required as it is considered highly unlikely that archaeological relics remain within the pipeline route.

The Wastewater pipeline in the front of the house should be kept 20m away from the fence surrounding the house. This will limit the likelihood of encountering outlying archaeological deposits associated with the house.

The Wastewater pipeline between the dairy and the feed shed could be successfully located midway between the two building complexes to avoid construction damage.

5.3.21 L.R. Mood Park (139)

L.R. Mood Park is listed on the Shellharbour LEP. See Figure 12 for location.

Description

L.R Mood Park comprises a playground, maintained gardens, and it contains one of a series of heritage plaques that comprise the Albion Park Heritage Walk, and which were researched and designed by the Tongarra Heritage Society as part of the Albion Park Federation Walk, which was funded by the Centenary of Federation 1901-2001 Project. There is also a war memorial present to honour those from the district who served in WW2.

History

L.R Mood Park was originally the site of 'The Commercial Hotel', which was built by James Condon in 1885. William Rafferty bought the hotel and approximately 10 years later it was taken over by his son John. The Commercial Hotel hosted several official functions, including a banquet for the opening of Macquarie Pass in 1898. L.R. Mood Park was purchased by Shellharbour Council in 1969.

Significance Assessment

Criterion a – historical: This item is historically significant in the course of local history, as it is the site of the former Commercial Hotel, a nineteenth and early twentieth century hotel built by James Condon, which was notable for hosting several official functions during its lifetime.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item is of social significance on a local level as it has a special association with the local community of Albion Park. It contains one of a series of heritage plaques that comprise the Albion Park Heritage Walk, and which were researched and designed by the Tongarra Heritage Society as part of the Albion Park Federation Walk, which was funded by the Centenary of Federation 1901-2001 Project.

Criterion e – technical: This item is of local research significance for its potential to reveal details regarding the operation of the Commercial Hotel through potential archaeological deposits associated with the site.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

L.R. Mood Park is historically significant in the course of local history, as it is the site of the former Commercial Hotel, a nineteenth and early twentieth century hotel built by James Condon, which was notable for hosting several official functions during its lifetime. The park is also of social significance on a local level as it has a special association with the local community of Albion Park. It contains one of a series of heritage plaques that comprise the Albion Park Heritage Walk and which were researched and designed by the Tongarra Heritage Society as part of the Albion Park Federation Walk, which was funded by the Centenary of Federation 1901-2001 Project.

Impact

It is proposed to construct a water pipeline along Tongarra Road in this location. It is recommended that the monuments and plaques be avoided or replaced once construction has been completed. If the pipeline is constructed within the bounds of the Park there is the potential to impact on archaeological remains of the Commercial Hotel.

Management

Avoid or remove and replace plaques and monuments. If the pipeline is going to impact on the curtilage of the Park it is recommended that archaeological monitoring be undertaken to ensure significant relics associated with the former Commercial Hotel are not impacted.

5.3.22 Mark's Villa (140)

Mark's Villa is listed on the Shellharbour LEP. See Figure 12 for location.

Description

Mark's Villa consists of two homes and farm buildings. One of the homes is presently occupied by the owner of the property and is a good extant example of a Victorian farmhouse, with a steep, pitched roof and verandah. The other is square in shape, timber clad, and would originally have been surrounded by a bull nose verandah. Fibro infill is also present in this structure, and a garage at the rear has been subsequently added. A brick dairy with cool room is located in the north/north-west corner of the property.

The current site of the structure is not its original location. Originally both of these structures and the associated farm buildings were situated 2km away from their present location, adjacent to the Illawara Highway. Their original location is marked by a single remaining concrete silo.

History

Mark's Villa was originally built on land granted to Andrew Allen on the 24th of January, 1817. Samuel Marks acquired 247 acres of this grant in 1876, or possibly slightly earlier. Mark's built on this property his home 'Wanalama'. The home was auctioned in 1881 by D.L Dymock at the Albion Park Hotel, with instructions from James Marks, who had since become the owner. John Russell purchased the 247 acres at this auction and was the occupier of the site in 1882.

The Johnston family leased 'Mark's Villa' (190 acres) from John Russell from the 1st of October, 1901 until the 16th of February 1916, when the Johnston's purchased the property. After the death of John Johnston Senior in November 1916, his sons, Charles and John Alfred continued to farm the property. Charles died suddenly in 1944, and John Alfred together with his sons, John Lindsay and Garnet (Garnie) Hedley James Johnston, continued to operate the farm. 'Mark's Villa' was farmed by John Lindsay and Garnet from the 12th of July, 1965, after the death of their father in 1964. The farm continued to operate under John Lindsay and Garnet as Johnston's 'Mark's Villa Pty Ltd'.

Illawara shorthorn cattle were successfully bred at Mark's Villa. In 1916 an easement was acquired by the Illawara Cooperative Central Dairy (ICCD) for the purpose of a water supply from Macquarie Rivulet on Boles' property. Thanks to the co-operation of the Johnstons, the ICCD had a water supply for 39 years until they were connected to Sydney Water.

In 1942 there was a major upheaval at the property, when the Authorities resumed 70 acres of Mark's Villa for the purpose of the WWII emergency airstrip in Albion Park. Two homes and farm buildings were relocated, which had a drastic impact upon the income of the property for several years.

According to a report by Godden Mackay Logan (2007:2):

"The homesteads of Wanalama 1 (also known as Marks Villa) and Wanalama 2 were relocated to their current sites during the construction of the Albion Park airfield during World War II. There is a third homestead of more recent date and a number of rural buildings.

The most significant element of the group is Wanalama 1 (Marks Villa), located to the rear of neighbouring Ravensthorpe. It is the oldest building on the site; the internal joinery is consistent with a construction date of c1880 or earlier. However, the house has been much changed, with chimneys and footings dating from the 1940s, reconfigured verandah roofing, enclosed verandahs and many recent additions. It is significant for its association with Samuel Marks, John Russell and the Johnson family and as a representative example of a Victorian farmhouse. However the

significance of the structure has diminished due to its relocation and later changes... The remaining buildings on the site are of a much lower level of significance.”

However there is no evidence that Godden Mackay Logan considered any factor other than the buildings as architecture in their assessment of significance and did not consider heritage values in relation to the property as a dairy farm and the remaining structures as having industrial heritage values in addition to the ones they elucidate.

The site also includes a large dairy and cooler and a large feedlot complex with a fodder silo

Significance Assessment

Criterion a – historical: This item is of local historical significance as an intact example of an early house and dairy which provide a reminder of the strong dairying roots of Albion Park and the importance of the industry in the development and history of the area throughout the nineteenth and twentieth centuries

Criterion b – associative: This item is of local historical association significance on a local level, as the site has links to several known historical figures from the Albion Park area, including Samuel Marks, whose name endured in the name of the site to the present day.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item is of local research significance, as the original site of Mark’s Villa, adjacent to the Illawara Highway, may have an extant subsurface archaeological record which could possibly include the original foundations of the original homestead and other associated material culture. This could potentially contribute to our understanding of early nineteenth century life on a dairying property in the Illawara.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

Mark’s Villa is of local historical significance as an intact example of an early house and dairy which provide a reminder of the strong dairying roots of Albion Park and the importance of the industry in the development and history of the area throughout the nineteenth and twentieth centuries. The item is also of historical association significance on a local level, as the site has links to several known historical figures from the Albion Park area, including Samuel Marks, whose name endured in the name of the site to the present day. The original site of Mark’s Villa, adjacent to the Illawara Highway and marked by a lone silo, is of some research significance, as it may have an extant subsurface archaeological record which could possibly include the original foundations of the original homestead and other associated material culture. This could potentially contribute to our understanding of early nineteenth century life on a dairying property in the Illawara.

Impacts

It is proposed to construct a Water pipeline running roughly north from Tongarra Road. The pipeline is planned to run through Wanalama 2, the dairy complex and the separate feedlot complex destroying these items.

Management

Given the historical, associative and technical heritage significance of this property, in particular its remaining evidence for dairying, it is recommended that the water pipeline be relocated to avoid these features by at least 15 m.

If the outbuildings are to be demolished then they are of sufficient heritage significance to justify an archival recording be made of the building using the guidelines *How to prepare Archival Recording of Heritage Items* issued by the New South Wales Heritage Office in 1998. The requirements for items of Local Significance and for recording items of Industrial Archaeological significance should be followed.

5.3.23 Marshall Mount Methodist Cemetery (141)

The Cemetery is listed on the Shellharbour LEP and the National Trust Register. See Figure 12 for location.

Description

The Marshall Mount Methodist Cemetery is fenced with treated pine and is set back 6.3m from the property boundary fences on either side. Graves with headstones are set a further 70m back again within the property, behind a row of Hoop Pines. This cemetery is still in use and is well maintained. Entrance to the cemetery is via a red brick entrance arch.

History

The land for the cemetery was donated by Thomas Armstrong in the 1870s.

Significance Assessment

Criterion a – historical: This item is of local historical significance as it provides a record of ordinary residents who occupied the area throughout the twentieth and into the twenty-first centuries.

Criterion b – associative: There is currently insufficient information regarding the individuals interred in the cemetery to determine whether the site meets this criterion.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item is of local social significance due to its strong and special association with the local community of Marshall Mount and the surrounding area.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

This item is of local historical significance as it provides a record of ordinary residents who occupied the area throughout the twentieth and into the twenty-first centuries. This item is also of local social significance due to its strong and special association with the local community of Marshall Mount and the surrounding area.

Impact

As it is proposed to construct a water pipeline along Calderwood Road, no heritage impacts are envisaged.

Management

Despite no heritage impacts being identified it is recommended that Sydney Water undertake specific consultation with the Methodist community to explain the project and to assure the community that there will be no heritage impacts on the Cemetery.

5.3.24 Mocolbo (144)

Mocolbo is listed on the Shellharbour LEP. See Figure 12 for location.

Description

Mocolbo was a Victorian style weatherboard home with a unique vertical slab construction kitchen. The site has been demolished and red brick townhouses currently occupy the site where it once stood. Excavation works associated with the construction of these townhouses are likely to have destroyed any archaeological deposits associated with the previous structure and so the archaeological potential at this site is limited. The new houses are set 5m back from the road.

History

Mocolbo was the home of Gabriel Timbs Junior, the town clerk of Shellharbour and Jamberoo, and the son of Gabriel Timbs Senior, a Pioneer family of Albion Park. When Albion Park Catholic Church decided in 1918 to build a new Presbytery, Gabriel Timbs Senior purchased this building, the original Presbytery, transported and re-erected it as his home on his daughter Gabrielle's allotment in the Taylor Estate subdivision fronting Tongarra Road. Gabriel Snr had purchased 27 allotments in his daughters name in c.1911. Gabrielle was confined to a wheelchair all of her life.

Both Timbs Snr and Jnr held positions of civic authority and were spokesmen for, and generous benefactors to, the Catholic Church in Albion Park. The Timbs home was a focal point of the district. It was a meeting place for dignitaries on business for Shellharbour and Jamberoo Councils; or Catholic Bishops and Monsignors visiting the area retiring for lunch or dinner.

Mocolbo was reportedly the first house in Albion Park to have two garages for cars, one on the eastern and one on the western side.

Mocolbo was demolished in 2004.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

This item is of no historical heritage significance as it has been demolished and is no longer extant at this location. The potential for any subsurface archaeological deposit associated with the item is limited due to the construction of townhouses on the former site of Mocolbo.

Impact

The construction of the pipeline within the property boundary is unlikely to encounter archaeological deposits related to Mocolbo.

Management

As no archaeological deposits are anticipated, no management is required.

5.3.25 Oak Farm (148)

This item is not on a heritage schedule. See Figure 12 for location.

Description

Oak Farm is a brick house constructed on brick and rubble foundations, set into the hill slope. It has a hipped roof and a symmetrical facade, although the left side of the wrap around verandah has been enclosed. The windows have stone sills and there is a transom light above the front door.

History

Free settler Thomas Armstrong took up the land on which Oak Farm is built around 1870. He remained there until his death in 1921. Armstrong was a Methodist lay preacher and from his grant of 209 acres he donated land for the Marshall Mount Methodist Church and Cemetery. Armstrong kept an open home for visiting Methodist ministers. There were also strong connections with the Thomas' of Oak Vale.

Armstrong was an active member of community, the first secretary for the Albion Park Agricultural, Horticultural and Industrial Society, a Director of the first Butter Factory in Albion Park in 1885, Alderman 1879-1885, 1888-1897, 1905-1921, and Mayor on three occasions; 1884, 1895, 1914-1917. Armstrong also planted one of the 45 Norfolk Pine Trees on Arbor Day 1895 on Shellharbour waterfront (Hynd 2004:48).

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: Oak Farm is of local significance through its association with Thomas Armstrong. Armstrong was an active member of the community, being Mayor and serving on numerous committees. He also donated the land for the Marshall Mount Methodist Cemetery.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

Oak Farm is of local significance through its association with Thomas Armstrong. Armstrong was an active member of the community, being Mayor and serving on numerous committees. He also donated the land for the Marshall Mount Methodist Cemetery.

Impact

It is proposed to construct a water pipeline along North Macquarie Road. The house at Oak Farm is located 22 m from the property boundary so there is the possibility of vibration impacts if the pipeline is located on the north western side of North Macquarie Road.

A Wastewater pipeline is proposed to run north east from the rear of the property near the remains of an old dairy and yards. It is possible that construction work may impact on the remains of the yards.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

Impacts on the demolished yards (although not a given) is acceptable considering their low level of heritage significance.

5.3.26 Oak Vale (149)

This item is not on a heritage schedule. See Figure 12 for location.

Description

Oak Vale is a symmetrical Victorian weatherboard cottage. It has a hipped roof and bull-nose verandah. The house has been renovated and an extension added, although this is largely sympathetic.

History

Oak Vale was constructed for William and Jane Thomas in 1875, after they purchased 190 acres. Together with the Armstrong's of Oak Farm, the Thomas' had an open home for visiting Methodist ministers. William died in 1912 and his wife in 1924. Both are buried in the Marshal Mount Methodist Cemetery.

Hynd (2004:49) reports that the Thomas' had a paddock of Lucerne that was harvested for 30 years without having to be re-sown. The property was primarily a dairy farm.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: Oak Vale is of local aesthetic significance as a charming example of a Victorian weatherboard cottage, which is enhanced by its rural setting.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

Oak Vale is of local aesthetic significance as a charming example of a Victorian weatherboard cottage, which is enhanced by its rural setting.

Impact

It is proposed to construct a Water pipeline along Calderwood Road no heritage impacts are envisaged.

Management

No management recommendations are required as no impacts are envisaged.

5.3.27 Ravensthorpe and Workers Cottages (154)

Ravensthorpe and the associated Workers Cottages are listed on the 2000 Shellharbour LEP and the Illawarra Regional Environmental Plan. See Figure 12 for location.

Description

Located on the rise at the eastern entrance to Albion Park township is a property containing a substantial residence and two associated workers cottages. The single story residence is of substantial size and is an excellent example of late Victorian architecture (of which there are few examples in the Municipality).

To the east of the main residence are two small timber cottages. One of these cottages (No.52) was built in 1889 and is a good example of the early timber cottages of the area and one of the last remaining examples of this form of architecture. There are also several large trees on the property that are of similar age to the main residence and off-set the character of the residence. Main house: Large graceful late nineteenth century residence. Victorian Georgian style, with a high pitched hipped and gambrelled roof. Constructed of rendered brick, with a tile roof and decorative brick chimneys. The home is surrounded by a wide skillion verandah, decorated with brackets and glass and timber side-panels. Windows of different sizes, including some very narrow double-hung windows, all with masonry sills. Remnant plantings and layout of period gardens.

Cottage 1: a simple stockmen's cottage of finer detail than usually seen. Key elements: steeply pitched hipped roof; corrugated iron roof sheeting in short lengths; skillion verandah to front elevation only; timber balloon frame construction with weatherboard cladding; turned timber verandah posts and filigree valance (probably a replacement); symmetrical fenestration; restrained Georgian detailing.

Cottage 2: pattern book cottage identical to its neighbour with the exception of a jerkin head gable roof. In all other respects, detailing is the same as Cottage 1

History

The land was originally part of the 'Waterloo' grant given to Andrew Allan. Ravensthorpe was built for local physician, Dr Bateman in 1893. Bateman had a surgery constructed to the east of the house. The Bateman family, including 11 children, lived in the house until his death in 1899. One of the Bateman's children, Mary, married John Raftery, owner of the Commercial Hotel. The couple purchased Ravensthorpe from the family in around 1921 (Hynd 2004:30).

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: Ravensthorpe is of local aesthetic significance as one of the grandest residences in the area and a fine example of Victorian architecture.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: Archaeological deposits associated with Ravensthorpe is of local significance as they have potential to yield interesting information regarding the operation of a rural doctor's surgery and the material culture of a large rural family.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

Ravesthorpe is of local aesthetic and research significance. The house is one of the grandest residences in the area and the archaeological deposits have the potential to reveal interesting information regarding the life of a rural doctor.

Impact

It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to these heritage items.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.28 Stapleton's Bridge over Frazer Creek (165)

The Bridge is listed on the Road Traffic Authority Section 170 register. The following description, history and significance assessment are taken from the listing, which is available at <http://www.rta.nsw.gov.au/cgi-bin/index.cgi?action=heritage.show&id=4309612>. See Figure 12 for location.

Description

Crossing a stream bed at the edge of a floodplain area, this widened bridge has one main span and cantilever endspans. Originally having three rows of continuous piers and beams, it has now been widened by one extra row on the southern side and two rows on the northern side, providing extra roadway and a northern footway. The beams haunch down to the piers and then up to the terminal cross girders. The new columns are slightly wider than the original columns, but otherwise the widening is very sympathetic. With shale outcropping, it is presumed that the bridge is founded on spread footings. The fill is stabilised by loose rock.

At deck level, the widened bridge has New Jersey kerbs with aluminium rails, and an aluminium railing for the footway (RTA Section 170 register).

History

Frazer Creek is named on an 1860 map of Terry's Meadows and was named after tenant farmer, William Fraser, who occupied that part of the estate on the eastern side of the creek for at least twenty-two years. The Fraser family were prominent in the Albion Park district, with John Fraser serving as manager and director of the Albion Park Butter Factory in 1885, then as Mayor from 1890 and an Alderman for over twenty years. William Fraser's farm was eventually owned by James Stapleton, after whom Stapleton's Hill and Stapleton's Bridge are named.

It is unclear when the first crossing of Frazer's Creek was built, but in 1859 the newly formed Shellharbour Municipal Council road committee called for an estimate of the probable cost for a new bridge across Frazer's Creek and tenders opened in September 1860. In March 1866 tenders were called for forming "the portion of the Tongarra Road between Albion Hotel and the bridge known as Frazer's". By the 1870s the bridge was known as Stapleton's.

Following the introduction of a system of Federal aid for road development and the establishment of the Main Roads Board in 1925, improvements were carried out on the State's major roads, a process which also necessitated the replacement of bridges, which by that time were inadequate. The present Stapleton's Bridge was built in 1929. It was one of more than 1,000 bridges constructed across the State by the Main Roads Board, later the DMR, during the period 1925-1940. During this period the Department adapted existing standards of bridge design to meet the requirements of improved motor vehicle performance: they were generally wider than previously with an improved load capacity. The principal types of bridges constructed during the period were: reinforced concrete beam; concrete slab; steel truss on concrete piers; and timber beam bridges. Concrete was favoured in many instances because it was perceived to be a low maintenance material (DMR, 1976, pp.55, 88-89, 169, 170). Based on RTA bridge database records, reinforced concrete beam or girder bridges were the most common form of concrete bridge construction to 1948, with more than 160 extant. They have been very popular in NSW, and elsewhere, providing an efficient and often aesthetically pleasing solution to a wide range of crossing types.

The years following the end of World War Two brought massive industrial expansion to the Greater Wollongong area, and its population almost trebled between 1947 and 1971. As a result there was a huge increase in the volume and nature of vehicular traffic, making the development and improvement of roads and bridges a vital part of this process. Guardrails were installed on

Stapleton's Bridge in 1986 and in 1989 maintenance was needed to repair end posts and badly spalled concrete in the cantilever section. The bridge was widened in 1991.

Significance Assessment

Criterion a – historical: Stapletons Bridge has local historic significance as the current bridge over Frazers Creek, which has been bridged since the 1850s (and possibly earlier) and formed part of the former main route from Sydney to the South Coast and Southern Highlands. The bridge is a component of a route which has been and continues to be an important part of the transport infrastructure for the locality, particularly as a coal transport route. The bridge's construction is associated with the program of main road improvement in the State, funded federally and carried out by the Main Roads Board cum Department of Main Roads from the late 1920s. Subsequent modifications are associated with local industrial, commercial and residential expansion in the Greater Wollongong region in the latter part of the twentieth century.

Criterion b – associative: The bridge is possibly significant through its association with James Stapleton, after whom it is named, owner of the adjacent farming property in the latter half of the nineteenth century. The crossing at the site has been known as Stapleton's Bridge since at least the 1870s. It is peripherally associated with the Fraser family, significant figures in the local farming community, dairy industry and political scene in the nineteenth century, who owned the land before Stapleton, and after whom the creek is named. The site is also associated with George Clark, mail boy, who was drowned crossing the bridge in 1873. Through these associations, together with documentary records, the bridge is able to contribute to an understanding of aspects of the locality's history, particularly of local land ownership, farming, dairying and industrial activities and the history of the road and crossing, which has formed an important part of the transport connections in the area.

Criterion c – aesthetic: The bridge has some aesthetic and technical significance. It employs a reinforced concrete beam cantilever approach span system, which is unusual and gives the bridge a distinctive appearance. The bridge has been widened in a sympathetic fashion.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: The bridge is a good example of a cantilevered abutment beam bridge of the 1930s.

Statement of Significance

Stapletons Bridge is of local historical, associative and aesthetic and technical significance. Its associations with James Stapleton, local landowner; and the Fraser family, for whom the creek was named contribute to an understanding of the history of the locality. The bridge is a component of Tongarra Road, an historically important route in the area, particularly as a timber route in the mid-nineteenth century, then as a coal transport route from later that century. While the crossing has been bridged since at least the 1850s, the present bridge, constructed in 1929 demonstrates the process of road infrastructure improvement undertaken by the Main Roads Board cum Department of Main Roads from the late 1920s to bring such infrastructure up to the standards required to cope with the changing nature and volume of traffic. Subsequent modifications are related to the industrial, commercial and residential expansion of the Greater Wollongong area in the late twentieth century. The bridge's design employs a reinforced concrete beam cantilever approach span system, which gives the bridge a distinctive appearance (RTA s.170 register).

Impacts

It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.

Management

Management action depends on how the pipeline is to cross Frazers Creek if it crosses on a separate structure there is no physical impact (visual curtilage is not of significance).

If it crosses on by bolting it to the bridge especially if it is bolted to the 1991 section then the impact on this item will be minimal and no further work will be required.

5.3.29 Tulkeroo (172)

“Tulkeroo” was the manager’s residence for the former Albion Park Butter Factory. This Victorian Georgian weatherboard home was built c1885. The Albion Park Butter Factory was built in 1884 in a co-operative effort from local farmers. The butter factory (since demolished) was situated next to the homestead. Tulkeroo is now a private residence.

The house sits at an angle to Calderwood Road and so the closest edge of the house front is 19.5 m and the furthestmost edge is 23.41 m away from the property boundary on Calderwood Road. See Figure 12 for location.

Significance Assessment

Criterion a – historical: Tulkeroo is of local historical significance as physical evidence of the development of the dairy industry in the Illawarra and the move from milk production into butter, which was more profitable. Tulkeroo also demonstrates the changes within the dairy industry, with the establishment of farmer co-operatives to advance their interests.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: Tulkeroo is of local representative significance as a fine example of a manager’s residence built in association with a butter factory.

Statement of Significance

Tulkeroo is of local historical and representative significance. Tulkeroo is physical evidence of the development of the dairy industry in the Illawarra and the move from milk production into butter, which was more profitable. Tulkeroo also demonstrates the changes within the dairy industry, with the establishment of farmer co-operatives to advance their interests. Tulkeroo is also a fine example of a manager’s residence.

Impact

It is proposed to construct a Water pipeline along Calderwood Road in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.30 Yallah Brush (180)

Yallah Brush is listed on the 1990 Wollongong LEP. See Figure 9 for location.

Description

Yallah Brush is located on the corner of Marshall Mount and Yallah Roads. It is an area of lightly wooded grass paddocks. As far as could be ascertained during the field survey, there were no structures within the curtilage of heritage significance.

History

A search of Land Titles information and early maps and plans indicates that the area seems to have been left over after the sale of the surrounding land. There is no indication of development or use of the land.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: Yallah Brush is of local aesthetic significance as an area of remnant vegetation.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

Yallah Brush is of local aesthetic significance as an area of remnant vegetation.

Impact

It is proposed to construct a Water pipeline along through the curtilage of the Brush. There is currently no information available regarding why the Brush was listed on the LEP. It appears likely that it was listed for its natural/environmental significance as a piece of remnant vegetation.

Management

Disturbing the ecosystem will impact on the significance of the item. It is recommended that the pipeline be rerouted. If this is not practicable it is recommended that an ecologist assesses the pipeline route and provides mitigation/off-set recommendations.

5.3.31 255 Tongarra Road (191)

This item is not on a heritage schedule. See Figure 12 for location.

Description

A weatherboard cottage with a hipped roof. A flat verandah has been added on the front and set on cream brick piers. The verandah has been partially enclosed, which somewhat obstructs the reading of the cottage. The front yard is grassed, with a concrete path leading to the front door. Identification of the boundary line was problematic, but the house appears to be between five and seven metres from the boundary.

History

There is no historical information currently available.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: The cottage may have archaeological relics of local significance associated with it that could provide information regarding lifeways in the Illawarra of working-class residents.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The cottage is of local research significance as the archaeological relics that may be associated with it could provide information regarding lifeways in the Illawarra of working-class residents.

Impact

It is proposed to construct a Water pipeline along Tongarra Road and Church Street in this location. There is the possibility of vibration impacts occurring to this heritage item.

Management

Given the likely heritage significance of these buildings the water pipeline should be located outside the property boundaries. If this not be feasible, monitoring by an archaeologist is recommended.

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.32 257 Tongarra Road – Rose Cottage (192)

This item is not on a heritage schedule. See Figure 12 for location.

Description

Rose Cottage is a weatherboard cottage set on a red brick wall. The roof, of corrugated iron, appears to be relatively recent and was extended out over the verandah on the same plane. This is unlikely to be an original feature. The front yard is well-developed, with the boundary line occupied by a hedge. The house is set back seven metres from the boundary.

History

There is no historical information currently available.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: The cottage may have archaeological relics of local significance associated with it that could provide information regarding lifeways in the Illawarra of working-class residents.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The cottage is of local research significance as the archaeological relics that may be associated with it could provide information regarding lifeways in the Illawarra of working-class residents.

Impact

It is proposed to construct a Water pipeline along Tongarra Road and Church Street in this location. There is the possibility of construction impacts occurring to this heritage item.

Management

Given the likely heritage significance of these buildings the Water pipeline should be located outside the property boundaries. If this not be feasible, monitoring by an archaeologist is recommended.

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

5.3.33 68 Church Street (193)

This item is not on a heritage schedule. See Figure 12 for location.

Description

A weatherboard house set on the corner of Church Street and Severn Place. The house has a hipped roof and a separate bull-nose verandah. The house is set on stumps and is accessed by a set of concrete steps. The facade is symmetrical, a central door flanked by sash windows. There is a brick chimney stack with three pots. It appears that the rear portion of the house is a sympathetic addition. A garage has been constructed to the northwest of the house. The front yard is grassed and dotted with ornamental trees. The house is set 12 m from the boundary.

History

There is no historical information currently available.

Significance Assessment

Criterion a – historical: This item does not meet this criterion as it is not important in the course or pattern of state or local history.

Criterion b – associative: This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.

Criterion c – aesthetic: 68 Church Street is of local aesthetic significance as a well-presented weatherboard cottage.

Criterion d – social: This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.

Criterion e – technical: The cottage may have archaeological relics of local significance associated with it that could provide information regarding lifeways in the Illawarra of working-class residents.

Criterion f – rarity: This item does not meet this criterion as it is not rare.

Criterion g – representative: This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.

Statement of Significance

The cottage is of local aesthetic and technical significance. The cottage is of local research significance as the archaeological relics that may be associated with it could provide information regarding lifeways in the Illawarra of working-class residents.

Impact

It is proposed to construct a water pipeline along Church Street in this location. There is the possibility of construction impacts occurring to this heritage item.

Management

There is limited potential for historically significant archaeological deposits or features to be located in the front yard of the property. It is recommended that if the pipeline route impacts on the property boundary that construction proceed with caution and if relics are uncovered works should cease and an archaeologist called in to assess the relics and advise as to how to proceed.

Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

6 Summary

The NSW Department of Planning (DP&I), responsible for the release of land for commercial and residential development, has developed the Illawarra Regional Strategy to coordinate the release of land in the area. Identified as a priority was the West Dapto Urban Release Area (WDURA or Area) (Figure 1). WDURA will provide about 50% of the future residential housing demand in the Illawarra, with around 16,000 homes (DP&I website). The rezoning of the first release precincts was announced by the NSW Government in May 2010.

In order to provide the water and wastewater services required for the development of the WDURA, Sydney Water has developed a services proposal. In addition to the WDURA, DP&I has identified additional areas for inclusion in the services proposal. These areas are known as the Adjacent Growth Areas (AGA) and include the area surrounding Yallah and along Lake Illawarra to Koonawarra and an area south of the Illawarra Highway covering the areas of Calderwood and North Macquarie. Together the WDURA and the AGA comprise the project boundary, the Concept Approval Area (Area). Concept approval is being sought for the whole of the Concept Approval Area. In addition, Project approval is being sought for the pipelines in the rezoned areas of WDURA. The areas for which Project Approval is sought has been termed the Project Approval Area. The balance of the Concept Approval Area, for which concept approval only is sought, has been termed the Remaining Concept Approval Area. Water and wastewater pipelines outside the Area have been assessed and are included in comments relating to the Remaining Concept Approval Area. The Area falls within the Local Government Areas (LGAs) of Wollongong and Shellharbour, as indicated in Figure 1.

Sydney Water is seeking concurrent Project Approval and Concept Approval for the project under Part 3A of the *Environmental Planning and Assessment Act 1979*. Sydney Water has commissioned a series of studies to feed into a supporting Environmental Assessment to assess the impact of the proposed water and wastewater services. The production of the Non-Indigenous Heritage report, being prepared for input into the Environmental Assessment (EA), has been divided into six deliverables:

- Updated Desktop, Values and Maps
- Field Survey Methodology
- Field Survey Report
- Impact Assessment and Impact Management Report
- Heritage Assessment and Impact Management Report
- Section 146 Report

The purpose of the project is to assess and report on Non-Indigenous heritage within the WDURA and to provide recommendations for managing the potential impacts of the proposed works. The aim of this Impact Assessment and Impact Management Report is to build on the findings of the desktop review, sensitivity mapping and field survey. Based on the above, this report assesses the potential impacts of the design, construction and operation on existing and potential Non-Indigenous heritage.

During the Updated Desktop a list of previously identified sites was compiled and the proximity of the sites to the proposed pipelines was assessed. The final list identified 195 sites, 82 within the Project Approval Area, 63 within the Remaining Concept Approval Area and 50 outside the Area. Of the sites 120 sites that were determined not to be impacted by the project at the Updated Desktop stage were not assessed during the field survey and have not been discussed in this report. A complete list of the 195 sites, with a brief description and history, where available, is provided in Appendix 1. The purpose of the field survey was to re-assess previously identified sites and to identify new sites, where visible. The field survey identified ten previously unidentified sites, six being potential archaeological sites along West Dapto Road (182-186) and one on Hayes Lane (187), all within the Project Approval Area. The balance comprise a Coral Tree Avenue within the Project Approval Area (188), two houses on Tongarra Road (191 & 192) and one house on Church Street (193) within the Remaining Concept Approval Area.

This report has provided a description and historical context for sites identified within the Concept Approval Area as potentially being impacted by the proposed water and wastewater pipelines. Based on this, the significance of the item has been established, or previous assessments confirmed. Establishing the significance of the items was vital in determining whether the potential impacts to the items by the proposed pipelines were acceptable or whether impact management recommendations needed to be developed. In the instances where impacts are anticipated management recommendations have been provided.

The project has been divided into two phases: the Project Approval Area and remaining Concept Approval Area, as discussed in Section 1.1. As construction within the Project Approval Area is anticipated to commence shortly after approval is granted, the recommendations for the Project Approval Area are more specific. Those for the remaining Concept Approval Area a broader and may require refining during detailed design.

The impact of the proposed pipelines on a site was divided into four categories. In Appendix 1 these impacts are denoted by a symbol and have the following definition

- No impact ●
- Indirect impact – where the item was unlikely to be removed as a result of construction but could potentially be impacted by vibration during construction ■
- Potential Impact – where the exact route of the pipeline would determine if the item was to be directly impacted ◆
- Direct Impact – where the current alignment will have an impact on an item or an element of its significance ▲

The impacts are summarised in Table 1. Within the Project Approval Area direct impacts are anticipated to seven items:

- Kembla Grange Settler's Cemetery (2) – the Cemetery is listed on the 1990 Wollongong LEP. It is recommended that further work be undertaken to determine the likelihood of graves occurring outside the current cemetery boundary
- Brisbane Grove (18) – the house is listed on the 1990 Wollongong LEP. It is recommended that impacts be avoided by rerouting the pipeline. If this is not practicable it is recommended that archival recording be undertaken prior to demolition
- Modern House and Farm (24b) – the House and Farm are not listed on a heritage schedule and considered to be of heritage value and no mitigation measures are required
- Barlyn Dairy (30) – is not listed, although the adjacent Barlyn Garden is listed on the 1990 Wollongong LEP. It is recommended that impacts be avoided by rerouting the pipeline. If this is not practicable it is recommended that archival recording be undertaken prior to demolition
- Avondale (50) – Avondale has previously been assessed as being of State significance. It is recommended that impacts be avoided
- Tramway (171) – The tramway is listed on the 1990 Wollongong LEP, it is recommended that a research design is developed to determine whether archaeological investigation is likely to yield information not available elsewhere
- Coral Tree Avenue (188) – the Avenue is not listed on a heritage schedule and considered to be of heritage value and no mitigation measures are required

There are the potential impacts to a further 28 items, depending upon the exact location of the pipelines. Indirect impacts (vibration during construction) are possible to two items and five items would not be impacted.

In the remaining Concept Approval Area direct impacts are anticipated to two items:

- Mark's Villa (140) – the Villa is listed on Shellharbour LEP. It is recommended that the impacts to Mark's Villa be avoided or that archival recording be undertaken prior to demolition and archaeological monitoring undertaken during construction
- Yallah Brush (180) – the Brush is listed on the 1990 Wollongong LEP. It is recommended that an ecologist be consulted to determine the extent of the impacts, as its significance is as remnant bush land.

There are 17 items that may be impacted by the proposed pipelines, depending upon the exact location of the corridors. Nine items may be indirectly impacted through vibration during construction and five items would not be impacted.

Area	Direct Impact	Potential Impact	Indirect Impact	No Impact
Project Approval Area	2, 18, 24b, 30, 50, 171, 188	17a, 17b, 20, 21, 22a, 22b, 23, 26, 27, 36a, 36b, 39, 40, 47, 48, 49, 55, 56, 59, 64, 76, 182, 183, 184, 185, 186, 187, 189	10, 11	19, 24a, 32, 38, 190, 195
Remaining Concept Approval Area	140, 180	61a, 61b, 62, 63, 66, 67, 68, 72, 73, 139, 148, 154, 165, 172, 191, 192, 193	84, 85, 86, 88, 116, 124, 131, 132, 133	65, 69, 138, 141, 144

Table 81 Summary of site impacts.

Note: for site names and relevant map numbers refer to Appendix 1.

In summary, a total of 195 sites were identified by previous studies and the field survey undertaken for this project. Of these there are 37 items that have been identified as being directly, indirectly or potentially impacted by the concept within the Project Approval Area. Within the remaining Concept Approval Area there are 28 items that may be directly, indirectly or potentially impacted. The significance assessment for this project confirmed that Avondale (50) and Marshall Mount (64) are of State significance and should be nominated to the State Heritage Register by the relevant body. No other recommendations regarding the listing of items are made.

7 References

AMBS, *Preliminary Aboriginal and Historic Heritage Assessment: West Dapto Urban Release Area, NSW*. Prepared for PB+MWH, 2010.

G Eardley, *Transporting the black diamond. Book 1, Colliery railways of the Illawarra district, N.S.W. (Central Section)*, Traction Publications, Canberra, 1968.

HLA, *Non-Indigenous Heritage Study West Dapto Release Area, New South Wales*, Prepared for Wollongong City Council, 2006.

Hynd, T. *Historic and Archaeological Map Shellharbour City 1830-1930*, Tongarra Heritage Society, 2004.

Reynolds, D.K. *The Railways of West Dapto: A history of the railways of the Illawarra Harbour & Land Corporation, the Dapto Smelting Works, the Wongawilli Colliery & Coke Works and Flemings or South Kembla Colliery*. BHP-Billiton Illawarra Coal. Coastline Printing: Unanderra, 2001.

**Appendix 1 Summary table of sites and
management recommendations**

Key for Impact Assessment (Column 1):

- No impact
- Not within Study Area
- Potential indirect impacts
- ▲ Direct impact
- ◆ Potential impact

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
1 Fig 3 ●	"Glengarry" Homestead and Garden	107 Reddalls Road, Kembla Grange	Single storey late Victorian/Georgian style building with garden, small detached kitchen, well, and stables.	Situated on one of the original 100 acre veteran's grants allocated to John Burnett in 1830. Repeatedly sold. Operated as dairy farm 1903-1940.	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	No Impact	No further action required	No Impact	
2 Fig 3 ◆	Settler's Cemetery (Kembla Grange Cemetery)	Reddalls Road, Dapto	Graves in two groups and several isolated marked graves. Graves from early to mid-1900s.	Unspecified	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	Within 25 m Road Easement		Potential Impacts	Ground penetrating radar, monitoring.
3 Fig 3 ●	Nissan Huts (x2)	Reddalls Road, Dapto	Located on private property and purchased by current owner as additional storage units. Huts have been relocated and placed side by side in a vacant grazing paddock. Constructed from heavy gauge steel with timber weatherboard at each end.	Huts probably relocated from Fairy Meadow Migrant Centre.	None		HLA 2006	No Impact	No further action required	No Impact	
4 Fig 3 ●	Slab Hut	Reddalls Road, Kembla Grange	Single storey timber slab hut with restored hipped corrugated iron roof. Verandah on three elevations. Two main rooms. Early timber and iron shaft cutter on eastern verandah	Early surviving hut from the original "Fig Tree Farm".	Wollongong LEP 1990	Local	HLA 2006	No Impact	No further action required	No Impact	
5 Fig 3 ●	Nissan Hut	Reddalls Road, Dapto	On private property. Next to a modern c.1970s residence. Heavy gauge steel and mounted on timber foundations. Relatively intact. Some minor additions including corrugated awning over eastern entrance.	One of many constructed for use during WW2 as sleeping quarters for army personnel.	None	Local	HLA 2006	No Impact	No further action required	No Impact	
6 Fig 2 ●	Bunya Pines and Fig - Paynes Road	Paynes Road, Dapto	A group of mature Hoop Pines and a Fig (<i>Araucaria bidwillii</i> , <i>Ficus macrophylla</i> var <i>hillii</i> and <i>Erthina</i> sp.)	Typical of many early plantings throughout the West Dapto region used for ornamental purposes and as windbreaks to protect nearby homesteads and associated buildings.	Wollongong LEP 1990	Local	HLA 2006	No Impact	No further action required	No Impact	

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
7 Fig 2 ●	Hoop Pines - Paynes Road	Paynes Road, Dapto	Two Hoop Pines (<i>Araucaria Cunninghamii</i>) situated in a cleared paddock adjacent the site of a former homestead (now demolished). Evidence of homestead survives in sandstone paving.	Typical of many early plantings throughout the West Dapto region used for ornamental purposes and as windbreaks to protect nearby homesteads and associated buildings.	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	No Impact	No further action required	No Impact	
8 Fig 2 ●	Cottage	Paynes Road, Dapto	Site comprises a c.1930s weatherboard cottage, small shed and brick house foundations, and a large farm dam.	No available historical information.	None	Local	HLA 2006	No Impact	No further action required	No Impact	
9 Fig 2 ●	Stockyard - Paynes Road	Paynes Road, Dapto	Intact example of a timber stockyard, including holding yards and loading ramp. Constructed from bush timber posts, dressed timber rails, and modern steel fencing.	No specific historical information available on this site. Construction materials reflect an original 1940s-1950s stockyard with modern additions.	None	Local	HLA 2006; AMBS 2010	No Impact	No further action required	No Impact	
10 Fig 2 ■	West Dapto Public School and Residence	Sheaffes Road, Dapto	Schoolhouse on west half of property, schoolmasters residence on the east. Both constructed from sandstone with timber skillion roofs of corrugated iron.	Located on the original 1832 grant allocated to William Keevers. Sold to George McPhail who donated one acre for construction of existing schoolhouse. Schoolhouse structure built in 1882 from local stone quarried for McPhail's property and opened in 1883.	Wollongong LEP 1990	Local	HLA 2006	Item within 50 m corridor		A water pipeline is proposed to be constructed along the eastern boundary of the West Dapto Public School. The heritage items may be subject indirect impacts from construction.	Vibration impacts to the West Dapto Public School are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
11 Fig 2, 4 ■	"Glen Ayr" Homestead	Sheaffes Road, Dapto	Simple inter-war period bungalow, uncommon in this period in the region. Clad in weatherboard, corrugated metal roof, distinctive corner bay window. Sheds and outbuildings to the north and west. Surrounded by simple, rectangular garden.	Located within Portion 43 of the original grant of James Fraser, who was given 100 acres in c.1832. This homestead constructed c.1922 by Smith family member, who also owned property next door. Developed as dairy farm. Run as stables and saddlery until 198	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	Corridor passes through boundary	75m from house	The heritage item may be subject indirect impacts from construction.	Vibration impacts to Glen Ayr are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
12 Fig 2 ●	"Stan Dyke" Homestead and Outbuildings	Sheaffes Road, Dapto	Original homestead and outbuildings. Constructed 1890 from sandstone quarried on the farm. Single storey structure, hipped corrugated metal roof and verandah on south side. Formerly located further up the hill. Relocated to existing location 1930. Outbuildings	Property originally belonged to Sgt. William Keevers. Grant of 100 acres in 1834. Property originally called "Hussar Farm". George McPhail acquired it in and later donated part to the West Dapto Public School.	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	No Impact		No impact	
13 Fig 2 ●	"Stan Dyke" Archaeological Site	Sheaffes Road, Dapto	Former location of "Stan Dyke" homestead.	Located on original grant (Portion 223) allocated to veteran James Mitchell.	None	None	HLA 2006; AMBS 2010	No Impact	No impact	No impact	
14 Fig 2 ●	"Stream Hill" Homestead and Outbuildings	Sheaffes Road, Dapto	Main homestead vernacular timber framed homestead (c.1840) with east and west verandahs. Garden contains remnant plantings of mature fig trees, coral trees, and plum pines, and 2 Norfolk Island Pines. Some remnant fruit trees from the former orchard to the	Situated on original veteran's grant registered to John Harris in 1839. Harris conveyed grant to William Sheaffe who built Stream Hill Cottage c. 1840. Harris' descendants operated the farm during the 20th century until purchased by council.	Wollongong LEP 1990	Local	HLA 2006	Corridor passes through boundary	t	No impact	

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
15 Fig 2 ●	Shed/Hall	Sheaffes Road, Dapto	Rectangular single storey corrugated iron clad shed elevated on timber and brick foundations.	Constructed c.1950s and was most likely established as a social meeting place or hall for the local community members.	None	Local	HLA 2006; AMBS 2010	No Impact		No impact	
16 Fig 3 ●	Kembla Grange Racecourse Railway Station	West Dapto Road, Dapto	Federation style station. U-shaped painted brick building with a corrugated iron roof with two gables. Fronting the railway line, the station has a verandah supported by brick columns and seating facilities. Modern concrete walls have been installed. Stat	A survey for the construction of a rail line from Sydney to Illawara began in 1873 and construction of a single line was completed by 1888. The Kembla Grange station platform is first mentioned in train timetables on 1st January 1890. In March 1912, a pri	None	Local	HLA 2006; AMBS 2010	No Impact		No impact	
17a Fig 3 ◆	Moreton Bay Figs - West Dapto Road	West Dapto Road, Dapto	Two adjacent Moreton Bay Figs (<i>Ficus macrophylla var hillii</i>) situated in a cleared paddock. The specimens are parallel to a significant section of early timber and wire fencing.	The Moreton Bay Fig is typical of many early plantings introduced throughout the West Dapto region used for ornamental purposes and as windbreaks to protect nearby homesteads and associated buildings.	None	Local	HLA 2006	Item within 25 m corridor	Site 17a is incorrectly noted as being listed on the Wollongong LEP	Potential construction of water pipeline	The trees themselves are not of heritage value, however, they do mark the potential site of New Archaeological Site 3 – Potential Remains of J Barretts Farm (184). It is therefore recommended that the area be avoided and the pipelines located within the road reserve. If this is not practicable the following management is recommended: Align pipes 15 m from the fig tree trunks. If this is not possible it is recommended an arborist is consulted regarding the health of the trees and the best way to proceed; Develop a clearer understanding of the archaeological potential of the site by undertaking the following: Vegetation removal to allow for a more detailed visual inspection A remote sensing survey along the route to identify the possibility of sub-surface remains of the buildings being located during construction Development of appropriate management options (likely to be either test excavation prior to construction, archaeological monitoring during construction or no further archaeological work)
17b Fig 3 ◆	Moreton Bay Fig - West Dapto Road	West Dapto Road, Dapto	One enormous Moreton Bay Fig (<i>Ficus macrophylla var hillii</i>) situated on a bend in West Dapto Road, opposite House 21 and adjacent to Concrete Bridge 22a. Associated with Potential New Archaeological Site 4 - Cottage (185)	The Moreton Bay Fig is typical of many early plantings introduced throughout the West Dapto region used for ornamental purposes and as windbreaks to protect nearby homesteads and associated buildings.	Wollongong LEP 2010	Local	HLA 2006	Item within 25 m corridor		Potential construction of water pipeline	The tree is of local significance and listed on the 2010Wollongong LEP. It is therefore recommended that impact be avoided. The tree also marks the potential site of New Archaeological Site 4 – Cottage (185). It is therefore, on this second count, recommended that the area be avoided and the pipelines located within the road reserve. If this is not practicable the following management is recommended: Align pipes 10 m from the fig tree canopy. If this is not possible it is recommended an arborist is consulted regarding the health of the trees and the best way to proceed; Develop a clearer understanding of the archaeological potential of the site by undertaking the following: Vegetation removal to allow for a more detailed visual inspection A remote sensing survey along the route to identify the possibility of sub-surface remains of the buildings being located during construction Development of appropriate management options (likely to be either test excavation prior to construction, archaeological monitoring during construction or no further archaeological work)

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
18 Fig 4 ▲	"Brisbane Grove" Homestead, Garden and Dairy	West Dapto Road, Dapto	Site comprises the original homestead, garden, modern house and dairy outbuildings. Homestead is a single storey building with hipped roof and verandah at the front and rear elevations. Small lean to added as a laundry. Front of homestead faces away from	There are few historical records available. The design of the building indicates that it was constructed in the late 1800s. Early photographs show the homestead with a simple picket fence. Formerly owned by five generations of the Smith family.	Wollongong LEP 1990	Local	HLA 2006	Corridor passes through boundary	Water pipeline and Wastewater pipe along West Dapto road however the older and heritage listed buildings are over 70m from the boundary so the construction of these items will have no impact on heritage	A Wastewater pipeline is proposed to be located on the western side of the buildings. Construction of this will result in the demolition of some farm buildings including the old dairy buildings. The original homestead will be just within 25m of the wastewater pipeline route.	The first and preferred option is to move the wastewater pipeline 25m to the north west (parallel to its current proposed route) to avoid impacts on the farm outbuildings. If the outbuildings are to be demolished archival recording is recommended Vibration impacts to Brisbane Grove are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
19 Fig 3 ●	Derelict House	5 West Dapto Road, Dapto	Derelict homestead consists of an L shaped weatherboard house with corrugated iron hipped roof and front verandah. Five main rooms and, although deteriorating, has original features including timber architrave, decorative pressed ceilings, timber panelled	Homestead dates to c.1920s.	None	Local	HLA 2006	Within 25 m Road Easement	The ornamental plantings are the nearest significant feature to the road and they are 50 m away.	No impact	
20 Fig 3 ◆	West Dapto Catholic Cemetery	West Dapto Road, Dapto	Cemetery is divided into two main sections by a grass path. The 'right' section is more sparsely populated and features earlier dated headstones. The site is bounded by a wire and timber fence and mature eucalypts. Entrance is via a decorative (c.1940s) m		Wollongong LEP 1990	Local	HLA 2006	Within 25 m Road Easement	While there is a fence on the road boundary the actual interments are bounded by a fence that is 77m at its closest to the road boundary. Parish map indicates there was a Chapel located near the road.	Potential Impact	Avoid impacting property boundary. If not possible undertake a remote sensing survey along the route to identify the possibility of sub-surface remains of the buildings being located during construction Development of appropriate management options (likely to be either test excavation prior to construction, archaeological monitoring during construction or no further archaeological work)
21 Fig 3 ◆	House	5 West Dapto Road, Dapto	The house (c. 1940s) is situated 12 m from West Dapto Road, just to the south of a 90° bend and faces south east. The house is of timber weatherboard with leadlight windows in the front room. These appear to be original. The front facade is L shaped and in-filled with a verandah supported by brick posts.	c.1940s	None	Local	HLA 2006; AMBS 2010	Item within 50 m corridor	Water pipeline along West Dapto Road. Depending on which side it is constructed the house maybe impacted.	Potential Impact	First management option is to minimise the impact by ensuring that the water pipeline is located on the south eastern side of the road or is located within the current road reserve. If the house is to be demolished then it is of sufficient heritage significance to justify an archival recording be made of the building using the guidelines How to prepare Archival Recording of Heritage Items issued by the New South Wales Heritage Office in 1998. The requirements for items of Local Significance should be followed. The tin shed can be removed without any further recording. If the House is to remain, vibration impacts are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
22a Fig 3 ◆	Concrete Bridge	West Dapto Road, Dapto	A small reinforced concrete bridge (c.1920) is located on West Dapto Road crossing a tributary of Robins Creek. The bridge is constructed from concrete supports and base with steel railings supported by four concrete pillars.	The bridge is an example of the use of reinforced concrete and steel which rapidly superseded the use of timber at the end of World War 1. The bridge most likely replaced an earlier less stable timber bridge.	None	Local	HLA 2006	Water pipeline to be constructed along West Dapto Road	Significantly altered since HLA recording.	A water pipeline is proposed to be constructed along West Dapto Road. Impacts will depend on how the pipeline is to cross the creek. If it crosses on a separate structure there will be no impact as the visual curtilage is not of significance. If it crosses on by bolting it to the bridge then the impact on this item will be minimal and no further work will be required	It is not listed and not a relic so no further heritage consideration is required
22b Fig 5 ◆	Concrete Bridge	West Dapto Road, Dapto	A small reinforced concrete bridge (c.1920) is located on West Dapto Road crossing a tributary of Robins Creek. The bridge is constructed from concrete supports and base with steel railings supported by four concrete pillars.	The bridge is an example of the use of reinforced concrete and steel which rapidly superseded the use of timber at the end of World War 1. The bridge most likely replaced an earlier less stable timber bridge.	None	Local	AMBS 2010	Water pipeline to be constructed along West Dapto Road	AMBS misidentification of 22a.	A water pipeline is proposed to be constructed along West Dapto Road. Impacts will depend on how the pipeline is to cross the creek. If it crosses on a separate structure there will be no impact as the visual curtilage is not of significance. If it crosses on by bolting it to the bridge then the impact on this item will be minimal and no further work will be required	It is not listed and not a relic so no further heritage consideration is required
23 Fig 3 ◆	Fence - West Dapto Road	West Dapto Road, Dapto	An extensive section of early remnant post and rail fencing located along West Dapto Road, running parallel to two significant mature fig trees. Features small section of early post and rail fencing remaining from a previous extensive property boundary. I	Typically the post and rail fence is recorded as the oldest style of fencing in common use in Australia until being replaced by the more cost effective wire fence from the 1850s and 1860s (Pickard 1998). It is however likely that the use of post and rail	None	Local	HLA 2006	No Impact	The remains of the fences are of local significance only.	It is possible that construction work may impact on Site 23 - the remnant fence by disturbance during construction or by requiring the removal of the fence.	The significance of this site is such that impact on or removal of this area would not cause a great loss to the heritage of the Local area or the State of NSW. No management required.
24a Fig 4 ●	Modern House and Farm Buildings	West Dapto Road, Dapto	Site comprises a modern c.1990s weatherboard house, stockyard, silo, and sheds. A c.1940s silo with cylindrical roof is situated on the eastern side of the access track to the property. A large corrugated iron shed supported by bush timber posts houses heavy farm mach	There are no known historical details about this site.	None	Local	HLA 2006; AMBS 2010	Item within 50 m corridor	HLA recorded site. Silo has been removed.	There will be no impact on items of heritage significance	
24b Fig 4 ▲	Modern House and Farm Buildings	West Dapto Road, Dapto	Modern c.1990s brick house set 300-400m from the Road. Assortment of brick and corrugated iron farm buildings, possibly a piggery, located approx. 50 m from the road.	There are no known historical details about this site.	None	Local	HLA 2006; AMBS 2010	Item within 50 m corridor	AMBS recorded this site instead of the above 24a	While there is likely to be a direct impact to the farm buildings, they are not of heritage significance	No recommendations
25 Fig 4 ■	Wongawilli Community Hall	Wongawilli Road, Wongawilli	L shaped single storey cement and brick structure with a corrugated iron roof. Was constructed as a purpose built community hall in 1950-1952, replacing the church at Wongawilli as the social centre of the village. Land was donated by mine owners and part	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	No Impact		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26 Fig 4 ■	Wongawilli Tennis Court	Wongawilli Road, Wongawilli	One standard playing court installed as part of the Wongawilli Village complex. The original court surface has been covered in bitumen and is enclosed by a painted timber and wire fence. Built in 1925.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	No Impact		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

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26, 27 Fig 4 ■	Wongawilli Mine Manager's Cottage	Wongawilli Road, Wongawilli	Single storey weatherboard cottage.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	Former Schoolhouse, Wongawilli Village	Wongawilli Road, Wongawilli	Constructed in 1927; opened in 1928. Operated until 1976 when it was sold and converted to a private residence. During c.1993 to 1998 it was run as a pre-school. The land was subdivided in 1985 and the newest house in Wongawilli built on the eastern portion	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	Culverts, Wongawilli Village	Wongawilli Road, Wongawilli	Steel pipe culverts encased in reinforced concrete.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 1, Wongawilli Road, Wongawilli	Single storey weatherboard cottage built c.1930 on the corner of Jersey Farm Road, company land. Later moved and purchased by T. & P. Jones in 1950.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 2, Wongawilli Road, Wongawilli	Single storey weatherboard cottage with a flat roof, constructed by its present owner and former employee at Wongawilli Mine from 1956 - 1961. The land was purchased by T. & H. Clark in 1949.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 4, Wongawilli Road, Wongawilli	c.1960s - c.1970s. Lot 4 purchased by J. Redpath, A. Bain, and J. Mack in 1944.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 5, Wongawilli Road, Wongawilli	c.1960s - c.1970s. Land purchased by T. Gallagher in 1953.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

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26, 27 Fig 4 ■	House, Wongawilli Village	Lot 6, Wongawilli Road, Wongawilli	c.1960s - c.1970s. Purchased by V. Willis in 1958.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 7, Wongawilli Road, Wongawilli	c.1980s single storey Colorbond house. Stone garden edging at front.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 8, Wongawilli Road, Wongawilli	c.1930s to 1940s. The school air raid shelter built behind house c.1942, sold in 1954 to G. Cole. Coke oven bricks used in walls of house and garage.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	Former Anglican Church, Wongawilli Village	Lot 3, Wongawilli Road, Wongawilli	Timber and fibro panel construction with a corrugated iron roof. Projecting porch over entrance. Rear lean-to addition. Built c.1911-1920, the church was originally located on Jersey Farm Road. Relocated to its current location in April 1933. It was moved	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 10, Wongawilli Road, Wongawilli	c.1950s. Lot 10 was purchased by L. and K. James in 1957.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	Former Post Office and General Store, Wongawilli Village	Lot 11, Wongawilli Road, Wongawilli	Purchased by H. Beaumont in 1949. House built mid 1950s and the front rooms operated as a post office and general store.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	Former Mine Hostler's House, Wongawilli Village	Lot 12, Wongawilli Road, Wongawilli	Built prior to 1926 for the Wongawilli Mine Hostler. It was relocated from Jersey Farm Road to Lot 12 c1935. Sold to T. Beckett in 1962.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

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26, 27 Fig 4 ■	House, Wongawilli Village	Lot 13, Wongawilli Road, Wongawilli	Lot 13 was sold to J. Redpath in 1937.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 14, Wongawilli Road, Wongawilli	Lot 14 was purchased by J. Darbyshire in 1952. The existing house was built in 1956.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 15, Wongawilli Road, Wongawilli	Lot 15 was purchased by B. Towers in 1957. The house was built in 1961 and is a single storey fibro construction with a flat and skillion roof. A small verandah features at the front of the house. Windows are aluminium framed.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	Former Miner's Cottage, Wongawilli Village	Lot 16, Wongawilli Road, Wongawilli	The cottage is pre-1926 and was relocated from Jersey Farm Road to Lot 16 c.1935.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	Former Miner's Cottage, Wongawilli Village	Lot 17, Wongawilli Road, Wongawilli	The cottage was built prior to 1926 and relocated from Jersey Farm Road to Lot 17 c.1935. It was formerly occupied by a mine engineer.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 18, Wongawilli Road, Wongawilli	Lot 18 was purchased by J. Evans in 1947. The house is a single storey construction with a skillion roof. It is brick veneer with coloured windows constructed c.1970s-1980s.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 19, Wongawilli Road, Wongawilli	Lot 19 was purchased by R. and M. Vickery in 1945. The house was sold in 1953.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

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26, 27 Fig 4 ■	Former Mine Surveyor's Cottage, Wongawilli Village	Lot 20, Wongawilli Road, Wongawilli	Possibly the oldest cottage on Wongawilli Road, the residence was occupied by a mine surveyor and originally consisted of two rooms. It was sold to J. and N. Bain in 1939.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	Cottage, Wongawilli Village	Lot 21, Wongawilli Road, Wongawilli	Constructed pre-1936. Was sold to W. Noble in 1945.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	Former Mine Engineer's Cottage, Wongawilli Village	Lot 22, Wongawilli Road, Wongawilli	Constructed c.1935 for a mine engineer.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 23, Wongawilli Road, Wongawilli	Lot 23 was purchased by A. Bain in 1942. The house was constructed in 1943. Extensions were made to the house after 1945 using the ex coke oven bricks from the mine.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 24, Wongawilli Road, Wongawilli	The cottage was constructed c.1930 and was sold by BHP to H. Chennell.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Lot 25, Wongawilli Road, Wongawilli	Lot 25 was purchased by T. Winn in 1956. The house was constructed c.1960s.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
26, 27 Fig 4 ■	House, Wongawilli Village	Wongawilli Road, Wongawilli	Built c.1985 on the land adjacent the schoolhouse.	Survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13, 200 feet, o	None	Local	HLA 2006	Within 25 m Road Easement		A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.	Vibration impacts to Wongawilli Village are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

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28 Fig 5 ●	Bridge - Darkes Road	Darkes Road, Dapto	Located before the Darkes Road and Princes Highway intersection. Constructed from timber struts and concrete supports. The support railings have been painted white at an earlier stage and have two rails. Original timber horizontal boards remain.	c.1920s	None	Local	HLA 2006	No Impact		No impact	
29 Fig 5 ●	"Barlyn" Homestead	Darkes Road, Dapto	Homestead is a single storey weatherboard structure elevated on brick and timber foundations. Wrap-around bullnose corrugated iron verandah features on the front elevation and part of the eastern elevation. Timber railings feature on the verandah. The west	Parish plans from the late 19th and early 20th century reveal that the site was originally located on a 100 acre property belonging to John Robins, from whom Robins Creek takes its name.	None	Local	HLA 2006	Item within 50 m corridor	A wastewater pipeline will run along the south west side of Darkes road and onto the property.	The house and garden is over 60m from the route of this pipeline.	The house and garden do not require any mitigation work as no impact is predicted
30 Fig 5 ◆	"Barlyn" Garden and Dairy	Darkes Road, Dapto	Garden is overgrown but has original ornamental plantings including palm trees, conifers on either side of the front entrance, mature figs, pepper trees, and citrus plantings. An original section of sandstone garden edging features at the front elevation	Parish plans from the late 19th and early 20th century reveal that the site was originally located on a 100 acre property belonging to John Robins, from whom Robins Creek takes its name.	Wollongong LEP 1990 (garden only)	Local	HLA 2006	Item within 50 m corridor	The pipeline will run between a large galvanised iron shed and a timber building judging by the buildings on the site in 1949 these buildings were not on the site at that time. It is presumed that some of these buildings may have to be removed for construction purposes.	The outbuildings relating to the dairying use of the property will be impacted.	If practical the pipeline should be rerouted to the west to avoid these buildings but it is recognised that this may not be practical. If the outbuildings are to be demolished then it is of sufficient heritage significance to justify an archival recording
31 Fig 4 ●	"Coral Vale" Homestead	Smith's Lane, Wongawilli	A simple c.1890s cedar splayed weatherboard cottage in Victorian style with a hipped corrugated iron roof. A wrap-around verandah features and has been enclosed (c.1950s) with fibro at the rear and has unsympathetic aluminium windows. Fibro lean-to added	Situated on the original grant of William Fry c. 1832. The property developed as a dairy farm and by the late 19th century had been expanded to include several lots totalling 200 acres. The Smith family acquired the property, their son William occupying L	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	No Impact	No impact	No Impact	
32 Fig 4 ■	"Coral Vale" Kitchen (former) and Outbuildings	Smith's Lane, Wongawilli	The original attached kitchen of "Coral Vale" homestead (Site #31) was relocated directly across the road in 1930 and is currently used as a residence. It has a corrugated iron roof, a skillion added to the west elevation, and a verandah on the east. An i	Situated on the original grant of William Fry c. 1832. The property developed as a dairy farm and by the late 19th century had been expanded to include several lots totalling 200 acres. The Smith family acquired the property, their son William occupying L	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	No Impact		A wastewater pipeline is proposed to run down the creek valley immediately south of the buildings. The pipeline is proposed to commence about 15m to the south west of the building.	As it seems unlikely the wastewater pipeline will impact on the site no management actions are proposed.

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
33 Fig 5 ●	Dapto Railway Station - Station Master's Residence	Station Street, Dapto	1887 station masters residence. Part of Dapto Railway Station general site.	A survey for the construction of a rail line from Sydney to Illawara began in 1873 and construction of a single line was completed by 1888. The Kembla Grange station platform is first mentioned in train timetables on 1st January 1890. In March 1912, a pri	Register of the National Estate (Indicative Place); State Heritage Register; Wollongong LEP 1990	State	HLA 2006; AMBS 2010	No Impact		No impact	
34 Fig 5 ●	Dapto Railway Station	Station Street, Dapto	Station building (type 4), standard roadside timber, 1887 residence, (type 6) 1887 platform face - brick on platform dock, entrance drive and park area. The station platform has been modernised and resurfaced with concrete. Fixtures, including fluorescent	A survey for the construction of a rail line from Sydney to Illawara began in 1873 and construction of a single line was completed by 1888. The Kembla Grange station platform is first mentioned in train timetables on 1st January 1890. In March 1912, a pri	Register of the National Estate (Indicative Place); State Heritage Register; Wollongong LEP 1990	State	HLA 2006; AMBS 2010	No Impact		No impact	
35 Fig 4 ●	"Horsley" Homestead, Garden and Dairy	Horsley Drive, Horsley	Site comprises main homestead, garden, and complex of outbuildings associated with the former dairy. Homestead is Georgian style, built from lime washed brick in two main stages. Initially (c.1842) there was a central hall with two rooms either side. Exte	"Horsley" is regarded as the first farm in the Illawara settled by free settlers and is associated with the Western family, who settled the property in 1818. The property was one of the largest land grants in the Dapto region. Utilised the clearing lease	Register of the National Estate; National Trust Register; State Heritage Register; Wollongong LEP 1990		HLA 2006; AMBS 2010	No Impact		No impact	
36a Fig 4 ◆	Stockyard - Bong Bong Road	Bong Bong Road, Dapto	An intact example of a timber stockyard, including holding yards and a loading ramp. The stockyard is located in an empty paddock close to the road alignment. The stockyard has been constructed from bush timber and more recent dressed timber.	Not available.	None	Local	HLA 2006	Within 25 m Road Easement	No heritage values	Water pipeline is proposed to be constructed along Bong Bong Road; the stockyard is located on the property boundary.	AECOM ascribes no heritage significance to this stockyard, the fabric or the form of the stockyard meet does not the criteria for local significance. The item can be removed without impacting the historical record of the West Dapto region.
36b Fig 4 ◆	Stockyard - Bong Bong Road	Bong Bong Road, Dapto	small timber stockyard	Not available.	None	Local	AMBS 2010	Within 25 m Road Easement	No heritage values. Misidentification of HLA item 36a	Water pipeline is proposed to be constructed along Bong Bong Road, the stockyard is about 10m north of the road.	AECOM ascribes no heritage significance to this stockyard, the fabric or the form of the stockyard meet does not the criteria for local significance. The item can be removed without impacting the historical record of the West Dapto region.
37 Fig 4 ●	House and Dairy	Bong Bong Road, Dapto	Accessed via Bong Bong Road; neighbours the Illawara Gun Club. Comprises two houses, a windmill, mounted water tank, stockyard and remnant outbuildings associated with the operation of a former dairy. Main house is a c.1940s-1950s single storey brick and	There is little historical detail known about this site.	None	Local	HLA 2006	No Impact		A Water pipeline is proposed to be constructed along Bong Bong Road. The house and dairy are over 30m from the boundary and will not be impacted.	No Recommendations
38 Fig 4	Former Poultry Farm - Outbuildings	Hayes Lane, Dapto	Remnant outbuildings associated with a former poultry farm operation. Several buildings survive. A section of laying sheds remain. These are a line of staggered sheds constructed c.1920s-1930s from corrugated iron. Two corrugated iron breeding sheds also	The property was established as a commercial poultry farm during the 1920s. It was purchased by the Hayes family in 1927 who continue to reside on the property. The main access road,	None	Local	HLA 2006; AMBS 2010	No Impact	The heritage items are the remnant poultry	A Water pipeline is proposed to be constructed along Hayes Lane. The remains of the poultry sheds will not be impacted.	No Recommendations

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●				Hayes Lane, was named after the well-known local family and formalised a					sheds are located 49m from the boundary fence along Hayes Lane behind a modern house.		
39 Fig 4 ■	Former Poultry Farm - Homestead	Hayes Lane, Dapto	Original c.1920s cottage with four main rooms, constructed in three parts. Original house is unpainted timber weatherboard elevated on brick stumps, which was relocated from a neighbouring property and previously served as the local schoolmistresses house	The property was established as a commercial poultry farm during the 1920s. It was purchased by the Hayes family in 1927 who continue to reside on the property. The main access road, Hayes Lane, was named after the well-known local family and formalised a	None	Local	HLA 2006; AMBS 2010	No Impact	The aerial images show that the poultry farm buildings extend to the east of line of the main house. The main house and hedge are 23.2m from the boundary of Hayes Lane.	A Water pipeline is proposed to be constructed along Hayes Lane. The house and large shed are 23.2 m from the boundary on Hayes Lane the main area of remnant poultry buildings will not be impacted.	First management option is to avoid the impact by constructing pipe closer to Hayes Lane, If not possible, undertake archival recording of house and monitor area for archaeological relics.
40 Fig 4 ■	House and Dairy	Hayes Lane, Dapto	Accessed via the end of Hayes Lane and neighbours "Westerlies". Comprises an original cottage, stable foundations, silo, and remnant outbuildings associated with the operation of a former dairy. Several buildings survive from their former use as a functio	There is little historical detail known about this site.	None	Local	HLA 2006; AMBS 2010	Item within 50 m corridor	This site would appear to be the site of "Dorough" shown as two buildings on the 1889 Parish Plan. There was a Dorough family living near Dapto so this may be their residence.	A Water pipeline is proposed to be constructed along Hayes Lane and then runs north-east across the property to link with the water pipeline running down Jersey Farm Road. The pipeline route may be within 25m of the farm outbuildings.	Because of the heritage significance of the site, first management option is to avoid the impact by varying the route of the water pipeline to avoid impact. If this is not possible recommend archival recording and archaeological monitoring during construction. Vibration impacts to the House are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
41 Fig 6 ●	Former site of "Benares"	Cleveland Road, Dapto	"Benares" was a single storey brick Georgian style residence featuring an ashlar finish and corrugated metal roof. The main building was constructed in typical Victorian Georgian style with a 1930s Californian bungalow style portico addition at the front.	Not available.	Wollongong LEP 1990	Local	HLA 2006	No Impact		No Impact	
42 Fig 6 ●	Bridge - Cleveland Road	Cleveland Road, Dapto	The bridge is located on Cleveland Road crossing the railway line and is constructed from timber struts and supports. The support railings have been painted white at an earlier stage and have two rails. Original timber horizontal boards remain.	The bridge was built c.1887 when the railway line from Sydney was established. The bridge was later modified in the 1950s.	None	Local	HLA 2006	No Impact		No Impact	
43 Fig 6	House	Cleveland Road, Dapto	The site is located next to Cleveland Bridge and is a single storey fibro building constructed c.1940s in simple vernacular design.	There is no historical information available for this site.	None	Local	HLA 2006	No Impact		No Impact	

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●											
44 Fig 6 ●	Young Farmers Meeting Hall	Cleveland Road, Dapto	A rectangular single storey corrugated iron clad shed elevated on timber and brick foundations. The roof is a gable constructed from a timber frame and corrugated iron sheeting. The front elevation features four small eight-pane windows framed in timber b	The building was constructed in c.1942 for use as a meeting hall for the small community of farmers and their families residing on the properties at Cleveland. It also served the neighbouring Avondale Public School for P & C meetings and school social fun	None	Local	HLA 2006; AMBS 2010	No Impact		No Impact	
45 Fig 6 ●	Avondale Public School	Cleveland Road, Dapto	Former schoolhouse designed by Government architect W. Kemp, and is a single storey building featuring a gabled corrugated metal roof and a fibro and timber panelled skillion added to the western elevation. A brick chimney is present on the north wall.	The site was originally established as a private school for the children of Henry Osborne's Avondale Estate in the 1850s. In 1860 the National School Board was given land by Major Hopkins, who owned the nearby estate "Benares". A slab hut was built in 186	Wollongong LEP 1990	Local	HLA 2006	No Impact		No Impact	
46 Fig 6 ●	"Glen Avon" House and Dairy	Cleveland Road, Dapto	The building is a weatherboard structure featuring a U shaped floor plan and bullnose verandah on three elevations. Ornamental plantings have been retained and include figs. The garden is enclosed by sections of timber picket, timber and wire, and a decor	Not available.	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	No Impact		No Impact	
47 Fig 6 ■	"Cleveland" Homestead and Outbuildings	Cleveland Road, Dapto	Site comprises the original homestead, two modern residences, and outbuildings associated with the former dairy. The early homestead was constructed in early Victorian Georgian style in the 1840s and is a rendered brick house with corrugated metal roof. The homestead building is in poor almost ruinous condition.	"Cleveland" stands on the original 600 acre grant (Portion 59, Parish of Kembla) made in 1833 to George William Paul, a Sydney merchant who had disposed of his land even before the grant was issued. A series of subdivisions and conveyances followed in rap	Register of the National Estate; National Trust Register; Wollongong LEP 1990		HLA 2006; AMBS 2010	No Impact	It should be noted that the entrance to Cleveland House off Cleveland Road is about 450m from the main curtilage of Cleveland House. The drive seems to have been at one stage tree lined but few of the trees are evident in the 1949 aerial image. Cleveland is located immediately south of a small creek overlooking Mullet Creek.	A Water pipeline is proposed to run along Cleveland Road potentially impacting on the entrance drive to Cleveland. This area however has no heritage significance. A Wastewater pipeline is proposed to run on the northern side of the small creek and will cut through the entrance driveway to Cleveland. There are the remanet trees from the tree-lined driveway in this location and there is the potential for the construction work to impact on them.	It should be easy to select a route through trees that avoids impact on them as they are widely spaced. Typically a tree protection zone of 10 metres around specific trees should be established to avoid compaction and mechanical injury during construction. If this is not possible it is recommended a photographic archival recording is undertaken prior to the tree removal.

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48 Fig 6 ■	Cottage	South Avondale Road, Dapto	A single storey weatherboard building constructed c. 1930s in simple vernacular design. The L shaped house is elevated on brick stumps and features a hipped corrugated iron roof and simple brick chimney. The front elevation features a small enclosed porch	There are no specific historical details available for this site.	None	Local	HLA 2006	Within 25 m Road Easement		It is proposed that a water pipeline will be constructed along South Avondale Road. It is proposed to construct a wastewater pipeline east of South Avondale Road, running roughly north east along an ephemeral creek valley. Depending on the exact alignment of the pipelines, the structures may require demolition or may be indirectly impacted by vibration during construction.	The first management option is to avoid the impact by rerouting the water pipeline to the western side of South Avondale Road although it is recognised that this may not be possible. Vibration impacts to the Cottage and Hayshed are anticipated, dependant on the final alignment. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986. Should construction require demolition of any of the structures, it is recommended the structures be archivally recorded and archaeological monitoring undertaken during construction.
49 Fig 6 ■	Dam and Hayshed	South Avondale Road, Dapto	A small dam adjacent to a Moreton Bay Fig on the property of the cottage (Site #48). A large hayshed (c.1940s) is constructed from corrugated iron and has a gabled roof supported by bush timber stumps. An adjacent timber stockyard (c.1960s) appears to be	There are no specific historical details available for this site.	None	Local	HLA 2006	Within 25 m Road Easement		It is proposed that a water pipeline will be constructed along South Avondale Road. It is proposed to construct a wastewater pipeline east of South Avondale Road, running roughly north east along an ephemeral creek valley. Depending on the exact alignment of the pipelines, the structures may require demolition or may be indirectly impacted by vibration during construction.	The first management option is to avoid the impact by rerouting the water pipeline to the western side of South Avondale Road although it is recognised that this may not be possible. Vibration impacts to the Cottage and Hayshed are anticipated, dependant on the final alignment. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986. Should construction require demolition of any of the structures, it is recommended the structures be archivally recorded and archaeological monitoring undertaken during construction.
50 Fig 6 ▲	"Avondale" Homestead and Garden	Avondale Road, Dapto	Site comprises main homestead, garden, and outbuildings. House constructed in 1854. Single storey brick design with stucco and ashlar finish. Foundations and window sills are stone. Hipped roof with slate tiles. Two simple rendered chimneys. Several farm	"Avondale" lies within part of the original Portion 14 granted to Alfred Elyard in 1834, based on a promised grant by Governor Brisbane in 1825. George Brown acquired the land before selling it to Henry Hill Osborne in 1839. The existing homestead was bui	Register of the National Estate; National Trust Register; Wollongong LEP 1990	National	HLA 2006	Item within 50 m corridor	The Water pipeline runs through the site	It is proposed to construct a Water pipeline running on an east west axis through the main building (probably just south of the main building) which will cause a major impact on the building and surrounding gardens) which is unacceptable given the heritage significance of Avondale	Given the heritage significance of the buildings and gardens at Avondale, it is strongly recommended the water pipeline be rerouted to the north (100m should clear relevant items) or to the south (130m should clear relevant items). Vibration impacts to Avondale are anticipated, dependant on the final alignment. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
51 Fig 6 ●	"Linbrook" Homestead and Outbuildings	Avondale Road, Dapto	Original homestead is a rare Victorian slab hut with corrugated metal roof. It has been added to since its original construction, but retains a high degree of original fabric. Extensive section of post and rail fencing probably dating to the construction	The property is one of the farms derived from the break-up of the original 'Avondale' estate in 1893. The hut was constructed in 1886 approximately 50 years after slab huts were commonly constructed and is located within the original Lot 9 of John Armstro	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	No Impact		No Impact	
52 Fig 6 ●	Bridge - Linbrook	Avondale Road, Dapto	The bridge is located on the private access road leading to "Linbrook Homestead". It is constructed from undressed timber beams and supports. Original timber horizontal boards remain.	Associated with 'Linbrook' Homestead and dairy.	None	Local	HLA 2006; AMBS 2010	No Impact		No Impact	
53 Fig 6 ●	Culvert	Avondale Road, Dapto	Culvert is situated near the entrance gate of a private property. It is constructed from concrete and stone pieces and features a State Survey Marker (91744 NSW) set on a metal plate adjacent.	Unknown	None	Local	HLA 2006; AMBS 2010	Potential Impact		Potential Impact	Archival recording prior to removal if to be impacted.
54	Dairy	Avondale Road,	Site comprises outbuildings associated with a former dairy, including milking sheds, holding yards, a concrete drainage	Associations with the adjacent	None - recommen	Local	HLA	No Impact		It is proposed that a Water pipeline will be constructed	Inspection of the site is recommended in order to assess

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
Fig 6 ◆	Buildings	Dapto	area, and various structures.	'Moorland' Homestead.	ded for inclusion on Wollongong LEP (1990) as part of the "Moorland" Homestead Curtilage.		2006			along Avondale road and north along the eastern boundary of the property. There are a series of outbuildings at the north-east corner of the site that may be impacted by construction. The construction along Avondale road will have no impact as the buildings are more than 25m from the boundary.	impacts.
55 Fig 6 ◆	"Moorland" Homestead and Garden	Avondale Road, Dapto	The homestead is a late Victorian vernacular timber building, with a grey iron roof and bull nose verandahs on three sides, one side enclosed. Wrought iron lattice inserts feature on each verandah cornice. Gravel driveway is accessed from Avondale Road an	The site is originally part of Alfred Elyard's 600 acre estate "Avondale", granted in 1834. In 1893 Henry Osborne purchased the property and the Avondale estate was subdivided into lots the same year. The land sale map from 1893 indicates that a building	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	Item within 50 m corridor	The site is shown on the 1929 Kiama sheet and is on the 1949 aerial image.	It is proposed that a Water pipeline will be constructed along Avondale road and north along the eastern boundary of the property. There are a series of outbuildings at the north-east corner of the site that may be impacted by construction. The construction along Avondale road will have no impact as the buildings are more than 25m from the boundary.	Inspection of the site is recommended in order to assess impacts.
56 Fig 6 ◆	Fence - Corner	Corner Avondale and Cleveland Road, Dapto	A small section of early post and rail fencing remaining from a previous extensive property boundary.	Not available.	None	Local	HLA 2006	Within 25 m Road Easement		It is proposed that a Water pipeline will be constructed along South Avondale Road, which may require removal of the Fence Corner.	The site is not of historical significance and does not require heritage management
57 Fig 6 ●	Fencing - South Avondale Road	South Avondale Road, Dapto	An extensive section of early post and wire fencing located along South Avondale Road. The fencing is limited to the western side of the road. Each standing timber post (85cm high) has four intact drill holes. Original barbed wire and more recent wire str	Typically the post and rail fence is recorded as the oldest style of fencing in common use in Australia until being replaced by the more cost effective wire fence from the 1850s and 1860s (Pickard 1998).	None	Local	HLA 2006	No Impact		No Impact	
58 Fig 6 ●	House	South Avondale Road, Dapto	Site consists of a c.1930s house, paddock, and modern sheds. The house is a c.1930s Californian Bungalow constructed in weatherboard and brick. A modern fibro lean-to has been added to the western elevation of the house.	There are no historical details available for this site.	None	Local	HLA 2006; AMBS 2010	No Impact		No Impact	
59 Fig 6 ◆	Stockyard - Huntley Road	Huntley Road, Dapto	An example of a timber stockyard, including remnant fencing and a loading ramp located amongst a regenerated area of Eucalypts. The post and rail fencing has been constructed from bush timber.	The stockyard is representative of sites of this type associated with dairying throughout West Dapto.	None	Local	HLA 2006	Within 25 m Road Easement	Not of heritage significance.	Potential Impact	Not of heritage significance and no further heritage consideration required if to be impacted.
60 Fig 9 ●	Fencing - Marshall Mount Road	Marshall Mount Road, Marshall Mount	An extensive section of early remnant post and rail fencing located along the private entrance drive of a modern residence (c.1980s) fronting Marshall Mount Road. The fencing is limited to the eastern side of the drive and extends for approximately 15m.	Typically the post and rail fence is recorded as the oldest style of fencing in common use in Australia until being replaced by the more cost-effective wire fence from the 1850s and 1860s (Pickard 1998). The fence predates the modern residence.	None	Local	HLA 2006; AMBS 2010	No Impact	HLA co-ordinates appear to be incorrect.	No Impact	
61a	One Lane Bridge' - Marshall	Marshall Mount Road, Marshall	A small concrete bridge (c.1920-30s) is located on Marshall Mount Road crossing Duck Creek. The bridge is constructed from concrete supports and base with steel	The bridge is an example of the use of reinforced concrete and steel which rapidly superseded the use of timber at	None	Local	HLA 2006	Item within 50 m corridor	The bridge is noted as being on the	A water pipeline is to be constructed along Marshal Mount Road. The impact	No mitigation required.

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Fig 9 ◆	Mount Road	Mount	railings supported by four concrete pillars. The original bridge surface was concrete and is n	the end of World War 1. The bridge most likely replaced an earlier less stable timber bridge.					1929 Kiama inch to a mile map. It crosses a tributary of Duck Creek	depends on how the pipeline is to cross the Creek if it crosses on a separate structure no impact (visual curtlidge is not of significance). If it crosses on by bolting it to the bridge then the impact on this item will be minimal and not further work will be required	
61b Fig 9 ◆	One Lane Bridge' - Marshall Mount Road	Marshall Mount Road, Marshall Mount	Two modern concrete bridges.		None	Local	AMBS 2010	Item within 50 m corridor	Misidentification of HLA item 61a	A water pipeline is to be constructed along Marshal Mount Road. The impact depends on how the pipeline is to cross the Creek if it crosses on a separate structure no impact (visual curtlidge is not of significance). If it crosses on by bolting it to the bridge then the impact on this item will be minimal and not further work will be required	Not of heritage significance and no further heritage consideration required if to be impacted.
62 Fig 9 ■	Marshall Mount Public School and Residence	Marshall Mount Road, Dapto	The schoolhouse is a single storey weatherboard building with a corrugated iron gable roof. A small lean-to with a skillion roof is situated on the western elevation. The building is accessed by two entrances, from the front and western elevation. Windows	The schoolhouse and residence were constructed in 1897 on the site of the first Methodist church in the region.	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	Within 25 m Road Easement		Water pipeline is planned to be constructed along Marshal Mount Road. Construction work may impact on both heritage items as they are within 10m of the property boundary on Marshall Mount Road	Avoid impacting or archaeological monitoring.
63 Fig 9 ■	Marshall Mount Community Hall	Marshall Mount Road, Dapto	Located adjacent to Marshall Mount Public School and Schoolmaster's Residence. A rectangular, single storey, corrugated iron clad shed elevated on timber and brick foundations. The roof is a gable constructed from a timber frame and corrugated iron sheet	Constructed in 1953 for use as a community hall for the small community of farmers and their families residing on the properties at Marshall Mount. It continues to serve as a function centre and holds regular dance nights.	None	Local	HLA 2006	Within 25 m Road Easement		Water pipeline is planned to be constructed along Marshal Mount Road. Construction work may impact on both heritage items as they are within 10m of the property boundary on Marshall Mount Road	Unlikely to be archaeological relics. No recommendations required.
64 Fig 9 ■	"Marshall Mount" Homestead, Garden and Outbuildings	Marshall Mount Road, Dapto	Colonial style homestead constructed in two parts of rendered brickwork and weatherboard. The single storey was built c.1838; the two-storey adjoining wing was erected during the 1840s and features a hall and cedar staircase. Other internal features of no	In 1829 Irish immigrants Sarah and Henry Osborne were granted 2560 acres named "Marshall Mount" after Sarah's maiden name. The Osbornes first resided in a modest house called "Pumpkin Cottage" but later recruited labour to establish "Marshall Mount House"	Register of the National Estate; National Trust Register; Wollongong LEP 1990	National	HLA 2006; AMBS 2010	Within 25 m Road Easement		Water pipeline is planned to be constructed along Marshal Mount Road. If constructed along the south-east side of Marshal Mount Road there is the possibility of direct construction impacts on the gardens and one outbuilding.	Given the heritage significance of the buildings and gardens at -"Marshall Mount" Homestead, Garden and Outbuildings, it is strongly recommended that the water pipeline be rerouted to avoid impact on these items. No direct impacts to the Homestead or Outbuildings are acceptable. It is recommended that impacts to the Garden be avoided, however, this may be difficult to achieve given the terrain at this location. It is also difficult to see how constructing a pipeline through the garden could be achieved without significant damage to the gardens. If it is necessary to put the pipeline through the garden it is recommended an aborist be consulted regarding the best way to proceed. Vibration impacts to Marshall Mount House and Outbuildings is anticipated, dependant on the final alignment. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

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65 Fig 9 ●	Homestead and Former Dairy (Willow Dean)	Marshall Mount Road, Dapto	Site comprises a homestead, modern horse stables, track and outbuildings associated with a former dairy. The homestead is an extensive single storey L shaped building constructed c.1930s-1940s of weatherboard. A concrete verandah features on the front and eastern sides. The exterior has had extensive renovations – the current cladding, roof and window shutters are modern. Elements of the dairy have been extensively modified for use in horse training.	Unknown	None	Local	HLA 2006; AMBS 2010	No Impact	No impact	Water pipeline and Wastewater pipeline are planned to be constructed along Marshal Mount Road. A second Wastewater pipeline is to be constructed on the southern side of Duck Creek. There will be no impact on the homestead and dairy from either of these constructions as the buildings are approximately 379m away.	No Impact
66, 67 Fig 9 ◆	Homestead and Dairy (Willow Vale)	Marshall Mount Road, Dapto	Site comprises modern homestead, original homestead, and outbuildings associated with a former dairy. The original homestead is not in use and is deteriorating. It was constructed in three phases; the timber rear section comprised a one-room cottage const	Unknown	None	Local	HLA 2006; AMBS 2010	Within 25 m Road Easement	A building is visible in this location on the 1929 Kiama map. The 1949 aerial image shows a cluster of farm buildings on Duck Creek and away from the road so the two new houses built nearer the road must be more recent.	Water pipeline is planned to be constructed along Marshal Mount Road. A second Wastewater pipeline is planned on the southern side of Duck Creek and runs about 10m north of Marshall Mount Road but with two feeders running into it. The works near Marshall Mount road will have no heritage impact. The most northern feeder will be about 20m from the site of the oldest buildings and construction will probably not impact on them. The southern feeder runs between the newest house and the house in the middle and construction will have a minor impact on areas that are likely to have contributory heritage significance only	A review of the design in detail would help in siting the feeder Wastewater pipeline so as to minimise construction impacts in this area. Avoid original homestead site or archaeological excavation.
68 Fig 9 ◆	Homestead and Dairy (Fairview)	Marshall Mount Road, Dapto	The homestead is a square shaped, single storey weatherboard building with a corrugated iron hipped roof and wrap-around verandah. The eastern elevation of the verandah was enclosed with fibro as a 'sleep out' during the 1940s. Externally, the house retains many original features.	The homestead dates to c.1910 with the addition of a 'sleep cut' during the 1940s. Formerly used as a poultry farm (pre-1940), the various sheds and outbuildings date to the establishment of the homestead, however, have been modified throughout the 20th c	None	Local	HLA 2006	Item within 50 m corridor		A water pipeline is planned to be constructed along Marshal Mount Road. It is 85 m from the boundary on Marshal Mount Road to the nearest item of heritage significance (the Homestead and Garden) so these works will not be impacted by the water pipeline. Wastewater pipelines are proposed to be constructed in front of the house and between the dairy and the feed shed. It is likely that there will be direct and vibration impacts from the construction of these two pipelines.	Given the heritage significance of the buildings and dairy buildings, it is recommended that the wastewater pipelines be carefully routed to avoid impact on these items. If this is not possible it is recommended that the items, within the broader context of the complex, be archivally recorded prior to demolition, that archaeological monitoring be undertaken during construction. The impact of vibration to the structures will also require management if they are still extant during construction.
69 Fig 9 ●	Moreton Bay Fig and Coral Tree	Marshall Mount Road, Dapto	One Moreton Bay Fig (<i>Ficus macrophylla var hillii</i>) and Coral Tree situated in a cleared paddock. The specimens are parallel to modern fencing.	The Moreton Bay Fig is typical of many early plantings introduced throughout the West Dapto region used for ornamental purposes and as windbreaks to protect nearby homesteads and associated buildings.	None	Local	HLA 2006	Within 25 m Road Easement	No Impact	Water pipeline and Wastewater pipeline are planned to be constructed along Marshal Mount Road. There will be no impact on these trees as they are 50m from the boundary of Marshal Mount Road.	

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
70 Fig 9 ●	House	Marshall Mount Road, Dapto	Single storey homestead with wrap-around verandahs.	Unspecified	None	Local	HLA 2006	Potential Impact	No Impact	Water pipeline and Wastewater pipeline are planned to be constructed along Marshall Mount Road. A second Wastewater pipeline is to be constructed on the southern side of Duck Creek. There will be no impact on the homestead and dairy from either of these constructions as the buildings are approximately 379m away.	
71 Fig 9 ●	Dairy	Marshall Mount Road, Dapto	Small dairy complex including sheds and silo.	Unspecified	None	Local	HLA 2006	Potential Impact	Potential Impact	No Impact	
72 Fig 9 ◆	Culvert	Marshall Mount Road, Dapto	The culvert is situated on the driveway of a c.1960s residence. It is constructed from concrete and features stones set into the cement.	Unknown	None	Local	HLA 2006; AMBS 2010	Within 25 m Road Easement	It is not clear why this is considered to be of heritage significance.	Water pipeline is planned to be constructed along Marshall Mount Road and if constructed on the northern side of Marshall Mount Road the culvert will be destroyed	The best option for construction is for the route to be located along the southern side of Marshall Mount Road.
73 Fig 6 ◆	"Penrose" Homestead, garden and dairy	Princes Highway, Yallah	Original Colonial Georgian style homestead. It is a symmetrical, single storey building with hipped roof and verandah on three elevations. Two room attic, including projecting attic windows. Roof is tiled in slate and the original brickwork is face sandstone	The homestead lies within the original grant of Evan Robert Evans, who purchased the land in 1847. Evans was a prominent landowner within the existing area of Yallah and traded cattle in conjunction with Henry Osborne. The homestead was constructed by a stonemason named William James in 1852 from sandstone bricks made on the property. Evans' descendants resided on the property until 1973.	Register of the National Estate; National Trust Register; Wollongong LEP 1990	National	HLA 2006; AMBS 2010	Item within 50 m corridor	Penrose consists of a main house with external kitchen and related buildings. To the west of the core group of buildings is a large modern brick shed. To the south are some horse pens?. To the north along the drive in from the Princess Highway are a series of dairy and feed buildings.	A Wastewater pipeline is planned to run on a east-west axis immediately south of the main house (it actually looks like it may go through it but this may be a drafting matter). There are potentially construction impacts from the Wastewater pipeline	Route pipeline 50 m from house or undertake archaeological monitoring during construction.
75 Fig 9 ●	House	Yallah Road, Yallah	Site comprises a small, single storey fibro clad cottage (c.1940s) on brick foundations. The roof is hipped, constructed from corrugated iron, with a verandah projecting on the front elevation. The cottage has a small garden of shrubs, coral trees, and eucalyptus	There are no known historical details about this site.	None	Local	HLA 2006; AMBS 2010	No Impact		No Impact	

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76 Fig 3 ◆	Kembla Grange War Cemetery	Reddalls Road, Dapto	War cemetery located on a small, square corner block on a curve of Reddalls Road. Two rows of engraved white marble headstones are positioned at the rear of the block. There are eight headstones in the back row, and four at the front. A concrete path extends to the boundary fence.	The graves mark the resting place of eleven members of the Royal Australian Army, and one Royal Australian Navy personnel from the local community. The site includes four members of the Royal Australian Army who were killed in battle in 1943.	Wollongong LEP 1990	Local	HLA 2006; AMBS 2010	Within 25 m Road Easement		The major concern is whether construction on either side of the road will impact on known or unknown burials. In the case of the Kembla Grange War Cemetery it seems unlikely that there are any other graves apart from the 12 clearly marked. This is because the cemetery is a specific purpose cemetery which has been well maintained	Because of the heritage significance of the site, first management option is to avoid the impact by ensuring the pipeline does not impact on the fenced property boundary, although it is recognised that this may not be possible. It is recommended graves themselves, which are located 14 m in from the boundary fence, be avoided. If rerouting is not an option then it is recommended that Sydney Water undertake a program of specific community consultation with the RSL and descendants of those buried in the Cemetery in order that the community has the opportunity to understand the proposed works and comment on them to ensure that the War Cemetery is treated with appropriate respect.
77 Fig 6 ●	Scarred Tree	Tag #72132, Marshall Mount Road	Mature White Box Eucalypt positioned in the northern section of the property, one of the northernmost trees in the vegetated area to the west of the transmission line corridor. A marking of 'P.M' is heavily etched into the timber, located on the northern	The tree is noted by a botanist as being dated at approximately 180 years old.	None	Local	HLA 2006	No Impact	No impact	No Impact	
78 Fig 4 ●	Hayshed, Loading Ramp and Fencing	Bong Bong Road	Site comprises an early twentieth century hayshed, loading ramp, and timber fencing. The hayshed is a single storey, two-room structure comprising a pitched roof with lean-to addition. Brickwork is constructed in a combination of English and Colonial bond	There is no historical information available for this site.	None	Local	HLA 2006	No Impact	No impact	No Impact	
79 Fig 4 ●	Cottage, Coral Vale Group	Smith's Lane	An intact 1923 weatherboard cottage located to the west of the homestead fronting Smith's Lane, constructed by the Smith family. Vegetation surrounding the cottage includes a mature conifer and overgrown lantanas screening the site from Smith's Lane.	"Coral Vale" is situated on the original grant of William Fry c.1832. The property developed as a dairy farm and by the late nineteenth century had been expanded to include several lots totalling 200 acres. The Smith family of 'Spring Hill' acquired the p	None	Local	HLA 2006	No Impact	No Impact	No Impact	
80 Fig 9 ●	Cottage and Dairy Buildings	Tag #79704 / #79705, North Marshall Mount Road	The site comprises a c.1920s timber weatherboard cottage, garage, silo, and associated dairy outbuildings. The cottage features a hipped roof with projecting gable and bull-nose verandah. Two concrete silos are joined by corrugated iron sheeting.	Unknown	None	Local	HLA 2006	No Impact		No Impact	
81 Fig 4 ●	Former Entrance Gates to Reed Park	Bong Bong Road	Four stone pillars constructed on concrete bases align the former formal entrance to Reed Park. Inner pillars are approximately 18 stone bricks high and have decorative cappings. The eastern pillar has however been damaged and is missing its upper portion	Reed Park lies on land originally part of the "Horsley Estate". During the 1890s, the Illawarra Harbour and Land Corporation was responsible for establishing a railway to the coal mine in the escarpment which ran through the Reed Park property.	None	Local	HLA 2006; AMBS 2010	No Impact		No Impact	

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82 Fig 4 ◆	House and Dairy Buildings	Private Road, Jersey Farm Road	The site comprises a c.1930s fibro clad cottage, silo, holding pens, and associated outbuildings. The cottage features a gable roof with projecting verandah. Three mature palm trees are located on the property.	Unknown	None	Local	HLA 2006	Item within 50 m corridor	This is really two sites- a house on the eastern side of Jersey Farm Road and an extensive dairy complex about 200m further south on Jersey Farm Road overlooking Robbins Creek	A wastewater pipeline is proposed to be constructed along the north bank of Robbins Creek and it is likely that the construction of this pipeline will impact on the southern end of the dairy complex. The removal of elements of the complex will impact on the overall significance of the site through the removal of physical evidence of the development of the complex as a whole.	Archival recording prior to removal if to be impacted.
83 Fig 12 ●	Albion Park Anglican and Roman Catholic Cemeteries	Part of Lot 2, DP 227785, Part of Lot 301, DP 1041577 AND Part Lot 37, DP 111172; 253 Tongarra Road, Albion Park	Not provided	Not provided	Wollongong LEP 2009; National Trust	Local	AMBS 2010	No Impact	No impact	No impact	
84 Fig 12 ■	Albion Park Council Chambers	Pt 27, DP 111172; 127 Tongarra Road, Albion Park	The original Council Chambers is a weatherboard building in Neo-Gothic style. The roof line has a steeply pitched intersecting gabled roof of corrugated iron, which is still visible behind the post-WWII 'Moderne' style brick addition to the facade. The addition has a central door, flanked by windows on either side. The facade also includes a clock and the Council crest.	The opening of the Albion Park Railway station in 1891 saw a shift in the business focus of the area and as a result the Shellharbour Municipal Council moved to the Tongarra Road site in 1896. The Council met for the first time in the building on 23 December 1897. The 'Moderne' style brick office was added to the front of the building in 1952. Council no longer occupies the building.	None	Local	Hynd 2005; AMBS 2010	Within 25m road Easement	Potential Impact	It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
85 Fig 12 ■	Albion Park Courthouse	Lot 64, DP 781264; 94-96 Tongarra Road, Albion Park	The Albion Park Courthouse has an 'L' shaped footprint and is constructed of red brick in the Federation style. Hynd (2004:15) describes it as having a terracotta tiled transverse 'Dutch' gable roof. Detailing includes exposed rafter in eaves overhang, roughcast stucco on chimneys and under eaves to contrast face red brick walls, a centred arched doorway, and gable end roof ventilators." A separate "pavilion" stands to the side and is connected to the original structure via an entrance and walkway.	The first Court of Petty Sessions was held on 21 December 1894 in the house of John Russell at 100 Tongarra Road. The Court House was opened in 1908, having been designed by Walter Liberty Vernon and built by Dulwich Hill builder Frederick Lemm. The first magistrate was S. Alexander and Gabriel Timbs as Baliff.	LEP	Local	AMBS 2010	Within 25m road Easement	Potential Impact	It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

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86 Fig 12 	Albion Park Post Office	133 Tongarra Road, Albion Park	The Post Office is a corrugated iron building with a high pitched roof and an unsymmetrical gabled entrance. The building is set on a foundation of red bricks.	The first Post Office operated from Robert Popple's store and commenced in 1861. James Grey took over the Post Office functions in 1863, but it remained within the store. In 1874 Albion Park Public School teacher John Wilson became the post master. Wilson partitioned a small area off one of the class rooms for the operation of the Post Office. The current Post Office opened on 10 July 1895, the Government having purchased the land five years previously. The first Postmistress was Mrs Rosie Long. In 1913 William Harris became the Postmaster and remained as such until his death in 1926. The Harris family continued their association with the Post Office by working in it or as contractors to carry the mail between the Post Office and the Railway Station (Hynd 2004:16).	None	Local	Hynd 2005; AMBS 2010	Within 25m road Easement	Potential Impact	It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
87 Not on map 	Albion Park Railway precinct, including the station, forecourts, residence and surroundings	Part of Lot 2, DP 1055593, Station Residence, Lot 1, DP 1055593 and State Rail Authority property fronting Station Road, 205 Princes Highway, Albion Park Rail	Not provided	Not provided	SHR, LEP, RNE, Railcorp s170	Local	AMBS 2010	No Impact	No impact	No impact	
88 Fig 12 	Albion Park School and former school residence	Lot 1, DP 782244, Tongarra Road, Albion Park	Not provided	Not provided	LEP	Local	AMBS 2010	Within 25 m Road Easement		It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
89 Fig 12 	Albion Park Showground	Lot 1000, DP 813443; Tongarra Road, Albion Park	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	No Impact	No Impact	
90 Fig 12 	All Saints Anglican Church	Part of Lot 2, DP 227785, 253 Tongarra Road, Albion Park	Not provided	Not provided	LEP; National Trust	Local	AMBS 2010	No Impact	No Impact	No Impact	
91 Not mapped 	Berkeley Pioneer Cemetery	Lot 1, DP 195869; Investigator Drive, Unanderra	Not provided	Not provided	LEP; National Trust	Local	AMBS 2010	No Impact	No Impact	No Impact	

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92 Not mapped 	Berkeley Reservoir	End of Jarvie Road, Berkeley	Not provided	Not provided	Sydney Waters 170	Local	AMBS 2010	Requires further investigation.	No Impact	No Impact	
93 Not mapped 	Boles Meadows	Lot 1001, DP 813443, 2105 Illawara Highway, Albion Park	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	No Impact	No Impact	
94 Not mapped 	Bong Bong Pass	End of Bong Bong Road, Huntley	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
95 Not mapped 	Brick Building	Behind Swanvale, Yellow Rock Road, Tullimbar	Not provided	Not provided		Local	Navin Officer 2004; AMBS 2010	No Impact	No Impact	No Impact	
96 Not mapped 	Brownsville Cemetery, large fig trees and Bunya Pine	Lot 18, DP 1023004, and Lot 1, DP 414418; 33-37 Prince Edward Drive, Brownsville	Not provided	Not provided	LEP; National Trust	Local	AMBS 2010	No Impact	No Impact	No Impact	
97 Not mapped 	Brownsville HCA	Hore Street, Prince Edward Drive and Brownsville Avenue	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
98 Fig 12 	Brushgrove	Lot 6, DP 259137, 248 North Macquarie Road, North Macquarie	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	Requires further investigation.	No Impact	No Impact	

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99 Fig 5 ●	Bunya Pine	93-97 Princes Highway, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
100 Fig 5 ●	Bunya Pine	Uniting Church, 126-128 Princes Highway, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
101 Not mapped ○	Cabbage Tree Palms Farmhouse	Avondale Road	Not provided	Not provided			AMBS 2010	No Impact	No Impact	No Impact	
102 Not mapped ○	Church Hall former Episcopalian Church of St Luke	Lot 18, DP 1023004; 35-37 Prince Edward Drive, Brownsville	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
103 Location Unknown ○	Convict Iron Ring	Property on Marshall Mount Road, Mt Throsby	Not provided	Not provided		Local	HLA 2004; AMBS 2010	Requires further investigation.	No Impact	No Impact	
104 Fig 12 ●	Crestview	Part Lot 11, Part Lot 12, 87 Terry Street, Albion Park	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	No Impact	No Impact	
105 Fig 5 ●	Crystal Clothing Factory	14-16 Marshall Street, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	

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106 Fig 5 ●	Dapto Hotel	102-110 Princes Highway, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
107 Fig 5 ●	Dapto House 'Daisy Bank'	262-268 Princes Highway, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
108 Fig 10 ●	Duck Creek Bridge	Princes Highway, Mt Brown	Not provided	Not provided	RTA s170	Local	AMBS 2010	No Impact	No Impact	No Impact	
109 Fig 5 ●	Fairley's Building	1-11 Bong Bong Road, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
110 Not Mapped ●	Fitzgerald's House	Marshall Mount	Not provided	Not provided		Local	HLA 2004; AMBS 2010	Requires further investigation.	No Impact	No Impact	
111 Not Mapped ●	Ford (prior to bridge construction)	Mullet Creek, Brownsville	Not provided	Not provided		Local	HLA 2004; AMBS 2010	Requires further investigation.	No Impact	No Impact	
112 Not Mapped ○	Former Albion Park Dairy Co-op building	Part of Lot 2, DP 1055593 and State Rail Authority land fronting Creamery Road, Albion Park Road	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	Off maps	No Impact	
113 Fig 6 ●	Former Avondale Public School	Cleveland Road, West Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	

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114 Not Mapped 	Former 'Berkeley House' site	Lot 401, DP 845805, and Lot 210, DP 811435; 23 Glastonbury Avenue and 191-195 Five Islands Road, Berkeley	Not provided	Not provided		Local	AMBS 2010	No Impact	No Impact	No Impact	
115 Not mapped 	Former Dapto Smelter	Lot 415, DP 1060164, Kanahooka Road, Kanahooka	Not provided	Not provided	LEP; RNE; National Trust	Local	AMBS 2010	No Impact	No impact	No Impact	
116 Fig 12 	Former ES & A Bank Building	Lot 4, DP 703238, 148 Tongarra Road, Albion Park	Hynd (2004:13) describes the Bank as being "largely intact and is a precious and rare example of 19th century commercial architecture in the area." The building is of rendered local blocks and has a transverse gabled roof of corrugated steel. The gable is decorated with a finial and the roof line is punctuated by multiple moulded chimneys.	With the construction of the railway line to Albion Park and the subsequent decline in shipping caused the English, Scottish and Australian Bank to relocate from Shellharbour to Albion Park. The Bank operated from leased premises from its relocation in 1884, originally as an agency and then as a branch from 1890. The building was extended in 1896 to provide a residence for a married manager.	LEP	Local	AMBS 2010	No Impact	This building is virtually on the boundary of Tongarra Road.	It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
117 Not mapped 	Former Illawara Lake Hotel	Lot B, DP 349026; 11 Prince Edward Drive, Brownsville	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
118 Not mapped 	Former Post Office	Part Lot 160, DP 751278; Harry Graham Drive, Kembla Heights	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact		
119 Fig 12 	Former Presbyterian manse	Lot 1, DP 574775, 42 Macquarie Street, Albion Park	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
120 Fig 3 	Former Unanderra Council Chambers	Lot 1, DP 860110; corner of Princes Highway and Factory Street	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	

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121 Not mapped 	General Cemetery	Lot 7007, DP 1029735; 61 Croome Road, Albion Park Rail	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
122 Not mapped 	Goldena Cottage	Unknown Location	Not provided	Not provided		Local	HLA 2004; AMBS 2010	Requires further investigation.	Location unknown	This item could not be identified.	
123 Fig 11 	Green Valleys	Lot 1, DP 194661, 2744 Illawara Highway, Tongarra	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	No Impact	No Impact	
124 Fig 12 	Harris' Garage	114 Tongarra Road, Albion Park	Harris' Garage is a bessa block style building with flat roof and a tiered facade. The left side of the facade is dominated by large horizontal roller doors to allow car access, with the right side has a door flanked by windows.	William G Harris, son of the Post Master, ran a motor for hire business from the Post Office after he purchased a 'Hupmobile' in around 1918. Following on from the success of his business, he purchased two blocks of land across the road from the Post Office and built a garage for the car. He subsequently expanded and began doing repair work on other people's cars and selling petrol. The Garage became a family business, with William's two sons apprenticed to the Garage between 1945 and 1950. A further expansion of the business was a bus service to the Tongarra Coal Mine. In 2003, WG Harris and Sons Pty Ltd celebrated 80 years of continual service to the town of Albion Park, at the original site and still from the original building (Hynd 2004:35).		Local	Hynd 2005; AMBS 2010	Within 25 m Road Easement	Potential Impact	It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
125 Fig 4 	Heriot Hill	End of Bong Bong Road, Horsley	Not provided	Not provided	City of Wollongong Heritage Study	Local	AMBS 2010	No Impact	No Impact	No Impact	
126 Fig 5 	House, 10 Marshall Street	10 Marshall Street, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	

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127 Fig 5 	House, 13 Marshall Street	13 Marshall Street, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
128 Not Mapped 	House, 206 Princes Highway	206 Princes Highway, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
129 Not Mapped 	House, 214 Princes Highway	214 Princes Highway, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
130 Not Mapped 	House, 222 Princes Highway	222 Princes Highway, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
131 Fig 12 	House, 100 Tongarra Road	100 Tongarra Road, Albion Park	A weatherboard cottage with a steep pitched roof and a broken back wrap around verandah. The two side verandahs have been unsympathetically enclosed. The windows have been replaced with aluminium and there has been the introduction of some unsympathetic materials.	This house held the first Court of Petty Sessions to be run in Albion Park in 1894. The house was then owned by John Russell. From around 1911 until 1916, when the Russell estate was subdivided following his death, the house and Blacksmith shop were leased by Oliver Wilson. Wilson continued to lease the property from Mrs. Sarah McGill. Hynd (2004:9) reported in 2004 that members of the Wilson family still occupied the home.	None	Local	Hynd 2005; AMBS 2010	Within 25 m Road Easement	Potential Impact	It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
132 Fig 12 	House, 102 Tongarra Road	102 Tongarra Road, Albion Park	The House is of weatherboard construction in a transitional Federation bungalow style. It has an asymmetrical L shaped facade and a corrugated iron gabled roof.	The land was part of the Russell Estate subdivision and was purchased by the Hazelton family, who were well-known within the local community as store operators. The Hazelton store was originally located in the driveway of the property, but was later moved to Horsley and a new store was constructed across the road from the House.	None	Local	Hynd 2005; AMBS 2010	Within 25 m Road Easement	Potential Impact	It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
133 Fig 12 ■	House, 111 Tongarra Road	111 Tongarra Road, Albion Park	The house is of dressed stone blocks and is now painted. It is symmetrical and in a Georgian style, a central door flanked by a window on each side and with a hipped roof. The front verandah is detached and also hipped.	The House was built in 1880 by pioneer Gabriel Timbs. It passed onto the Sawtell, Crow and King families (Hynd 2004:11).	None	Local	Hynd 2005; AMBS 2010	Within 25 m Road Easement	Potential Impact	It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
134 Fig 9 ●	House, Yallah	Lot 1, DP 156657; next to "The Woolshed", Princes Highway, Yallah	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
135 Not mapped ○	Huntley Colliery	Lot 26 and 27, DP 3083; Off Avondale Colliery Road, Huntley	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
136 Not mapped ○	Illawara Escarpment	NA	Not provided	Not provided	LEP; RNE; National Trust	Local	AMBS 2010	No Impact	No impact	No impact	
137 Fig 9 ○	Landscape Items	Lot 3, 4, and 61, Marshall Mount Road	Not provided	Not provided	LEP	Local	AMBS 2010	Requires further investigation.	No impact	No impact	
138 Fig 9 ●	Logbridge Farm' House	Marshall Mount Road, Marshall Mount	Logbridge Farm could not be located during Field Survey. There is no physical evidence of the former farm and its exact location is unclear.	Logbridge Farm was the name given to a farm run by the YMCA for the purpose of conducting child development camps. It used buildings, described as cottage, barn, hall and workshop on what is now the Yallah TAFE site. When TAFE proposed to occupy the area and demolish the buildings due to their unsafe condition there was considerable protest resulting in a statement to Parliament on 24th September 1996. It seems that the buildings were demolished shortly after. There is a building shown in this location in the 1929 Kiama map and is shown on the 1949 aerial image. 'Logbridge Farm' is located on the current Albion Park 1:25,000 map which dates from 1986 and presumably is the source of the AMBS listing.	LEP 1990 Wollongong	Local	AMBS 2010	Within 25 m Road Easement		There is however no physical evidence on the site and there is low archaeological potential as the site of the buildings has been converted into a field for training in green keeping and turf culture which would have required site levelling and construction of the turf areas.	Cease works and consult an archaeologist if relics are uncovered.

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
139 Fig 12 ◆	L.R. Mood Park	Lot A and B, DP 156241; corner of Tongarra Road and Illawara Highway, Albion Park	L.R Mood Park comprises a playground, maintained gardens, and it contains one of a series of heritage plaques that comprise the Albion Park Heritage Walk, and which were researched and designed by the Tongarra Heritage Society as part of the Albion Park Federation Walk, which was funded by the Centenary of Federation 1901-2001 Project. There is also a war memorial present to honour those from the district who served in WW2.	L.R Mood Park was originally the site of 'The Commercial Hotel', which was built by James Condon in 1885. William Rafferty bought the hotel and approximately 10 years later it was taken over by his son John. The Commercial Hotel hosted several official functions, including a banquet for the opening of Macquarie Pass in 1898. L.R. Mood Park was purchased by Shellharbour Council in 1969.		Local	Hynd 2005; AMBS 2010	Within 25 m Road Easement		It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item. If the pipeline is constructed within the bounds of the Park there is the potential to impact on archaeological remains of the Commercial Hotel.	Archaeological monitoring for relics associated with the Commercial Hotel if the curtilage is to be impacted. This recommendation is not required if the services are placed in the footpath.
140 Fig 12 ▲	Marks Villa	Pt 1, DP 70380; 58 Tongarra Road, Albion Park	The homesteads of Wanalama 1 (also known as Marks Villa) and Wanalama 2 were relocated to their current sites during the construction of the Albion Park airfield during World War II. There is a third homestead of more recent date and a number of rural buildings. The most significant element of the group is Wanalama 1 (Marks Villa), located to the rear of neighbouring Ravensthorpe. It is the oldest building on the site; the internal joinery is consistent with a construction date of c1880 or earlier. However, the house has been much changed, with chimneys and footings dating from the 1940s, reconfigured verandah roofing, enclosed verandahs and many recent additions.	Not provided	Shellharbour LEP	Local	Hynd 2005; AMBS 2010		The site also includes a large dairy and cooler and a large feedlot complex with a fodder silo	It is proposed to construct a Water pipeline running roughly north from Tongarra Road. The pipeline is planned to run through Wanalama 2, the dairy complex and the separate feedlot complex destroying all these items.	Given the heritage significance of this property in particular its remaining evidence for dairying it is recommended that the water pipeline be relocated to avoid these features by at least 15m. If the outbuildings are to be demolished then they are of sufficient heritage significance to justify an archival recording. Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
141 Fig 12 ●	Marshall Mount Methodist Cemetery	Lot 1, DP 195342, 283 Calderwood Road, Calderwood	The Marshall Mount Methodist Cemetery is fenced with treated pine and is set back 6.3m from the property boundary fences on either side. Graves with headstones are set a further 70m back again within the property, behind a row of Hoop Pines. This cemetery is still in use and is well maintained. Entrance to the cemetery is via a red brick entrance arch.	The land for the cemetery was donated by Thomas Armstrong in the 1870s.	LEP; National Trust	Local	AMBS 2010	Within 25 m Road Easement	The cemetery is set back from the boundary on Calderwood Road. The boundary fence is 6.5m from the property boundary on Calderwood Road and the interments are located 58m from the property boundary	It is proposed to construct a Water pipeline along Calderwood Road no heritage impacts are envisaged.	Despite no heritage impacts being identified it is recommended that Sydney Water undertake specific consultation with the Methodist community to explain the project and to assure the community that there will be no heritage impacts on the Cemetery.
142 Not mapped ○	Methodist Cemetery	Lots 55 and 56, Bangaroo Avenue, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No impact	No impact	No impact
143 Not mapped ○	Military Bunker	Part Lot 4, DP 223746; Bright Parade, Mt Brown Reserve	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No impact	No impact	No impact

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144 Fig 12 ●	Moculbo (demolished)	Lot 144, DP 786419; 184-186 Tongarra Road, Albion Park	Site now modern townhouses	Moculbo demolished in 2004		Local	Hynd 2005; AMBS 2010	Within 25 m Road Easement	No impact	Site has been removed by construction of townhouses	No archaeological potential
145 Fig 7 ●	Mount Brown Reserve	Lot 4, DP 223746; Lot 12, DP 233464; Lot 109, DP 1050302 and Lot 22, DP 774118; Mount Brown	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No impact	No impact	No impact
146 Not mapped ●	Newtown Park homestead and gardens	Lot 12, DP 829115, next to Kembla Grange Race Course, Kembla Grange	Not provided	Not provided	LEP; National Trust	Local	AMBS 2010	No Impact	No impact	No impact	No impact
147 Not mapped ○	Nudjia' House	83 Cumming Street, Unanderra	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No impact	No impact	No impact
148 Fig 12 ◆	Oak Farm	Lot 5, DP 259137; 337 North Macquarie Road, Calderwood	Oak Farm is a brick house constructed on brick and rubble foundations, set into the hill slope. It has a hipped roof and a symmetrical facade, although the left side of the wrap around verandah has been enclosed. The windows have stone sills and there is a transom light above the front door.	Free settler Thomas Armstrong took up the land on which Oak Farm is built around 1870. He remained there until his death in 1921. Armstrong was a Methodist lay preacher and from his grant of 209 acres he donated land for the Marshall Mount Methodist Church and Cemetery. Armstrong kept an open home for visiting Methodist ministers. There were also strong connections with the Thomas' of Oak Vale.		Local	Hynd 2005; AMBS 2010	Corridor passes through boundary		It is proposed to construct a Water pipeline along North Macquarie Road. The house at Oak Farm is located 22m from the property boundary so there is the possibility of construction impacts if the pipeline is located on the north western side of North Macquarie road. A Wastewater pipeline is proposed to run north east from the rear of the property near the remains of an old dairy and yards. It is possible that construction work may impact on the remains of the yards.	Impacts on the demolished yards (although not a given) is acceptable considering their low level of heritage significance. Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

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149 Fig 12 ●	Oakvale	Lot 2, DP 608238; 317 Calderwood Road, Calderwood	Oak Vale is a symmetrical Victorian weatherboard cottage. It has a hipped roof and bull-nose verandah. The house has been renovated and an extension added, although this is largely sympathetic.	Oak Vale was constructed for William and Jane Thomas in 1875, after they purchased 190 acres. Together with the Armstrong's of Oak Farm, the Thomas' had an open home for visiting Methodist ministers. William died in 1912 and his wife in 1924. Both are buried in the Marshal Mount Methodist Cemetery. Hynd (2004:49) reports that the Thomas' had a paddock of Lucerne that was harvested for 30 years without having to be re-sown. The property was primarily a dairy farm.		Local	Hynd 2005; AMBS 2010	Corridor passes through boundary	The relatively new looking buildings are 78m from Calderwood Road.	It is proposed to construct a Water pipeline along Calderwood Road no heritage impacts are envisaged.	No recommendations
150 Not Mapped ○	Old Mullet Creek Bridge, Fencing and Ford	Mullet Creek, Brownsville	Not provided	Not provided		Local	HLA 2004; AMBS 2010			Item could not be located.	
151 Not Mapped ○	Osborne Memorial Church of St Luke	Part Lot 18, DP 751263 and Lot 18, DP 1023004; 35-37 Prince Edward Drive, Brownsville	Not provided	Not provided	LEP; RNE; National Trust	Local	AMBS 2010	No Impact		No impact	No impact
152 Fig 12 ●	Parkview	Lot 1, DP 194903; 340 North Macquarie Road, Calderwood	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact		No impact	No impact
153 Fig 12 ●	Pioneer Cemetery	Part Lot 32, DP 111172, Russell Street, Albion Park	Not provided	Not provided	LEP; National Trust	Local	AMBS 2010	No Impact		No impact	No impact
154 Fig 12 ■	Ravensthorpe', including grounds and adjoining workers' cottages	Lots 91-93, DP 1069273; 52-56 Tongarra Road, Albion Park	Located on the rise at the eastern entrance to Albion Park township is a property containing a substantial residence and two associated workers cottages. The single story residence is of substantial size and is an excellent example of late Victorian architecture (of which there are few examples in the Municipality). To the east of the main residence are two small timber cottages.	The land was originally part of the 'Waterloo' grant given to Andrew Allan. Ravensthorpe was built for local physician, Dr Bateman in 1893. Bateman had a surgery constructed to the east of the house. The Bateman family, including 11 children, lived in the house until his death in 1899. One of the Bateman's children, Mary, married John Raftery, owner of the Commercial Hotel. The couple purchased Ravensthorpe from the family in around 1921 (Hynd 2004:30).	LEP	Local	AMBS 2010	Within 25 m Road Easement		It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of vibration impacts occurring to this heritage item.	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

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155 Not mapped ○	Riversford	Lot 7, DP 259137; 2514 Illawarra Highway, Tullimbar	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	Off maps	No impact	No impact
156 Not mapped ○	Rondanella 'House	Lot 202, DP 1034062; 23 Rondanella Drive, Kanahooka, adjacent to Mullet Creek	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact		No impact	No impact
157 Not Mapped ○	Rosemont	Lot 71, DP 837462; 2725 Princes Highway, Dunmore	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact		No impact	No impact
158 Not mapped ○	Rosetta Hill'	Lot 1, DP 883020; 55 Fields Drive, Albion Park	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No impact	No impact	No impact
159 Not mapped ○	Ruins of former Tullimbar School and Headmaster's Residence	Lot 1, DP 905581, 38 Tullimbar Lane, Tullimbar	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No impact	No impact	No impact
160 Not mapped ○	Sawmill	Princes Highway, opposite Fowlers Road, Dapto	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No impact	No impact	No impact
161 Not mapped ●	Slater Family House and Slater's Bridge	Lot 3, DP 786602; 118-120 Koona Street, Albion Park Rail	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	No impact	No impact	No impact

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162 Figure 4 & 5 ●	Smelter Rail Route	Lots 1 and 3, DP 546902; former alignment behind properties fronting Thirroul Road, Edgeworth Street, and William Beach Road, extending between Kanahooka Road, Field Street, and Webb Park, Kanahooka	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No impact	No impact	No impact
163 Fig 12 ●	St Andrew's Presbyterian Church	Part Lot 36, DP 111172, 250 Tongarra Road, Albion Park	Not provided	Not provided	LEP; National Trust	Local	AMBS 2010	Within 25 m Road Easement		No impact	No impact
164 Not mapped ●	St Josephs Convent	8-12 Jerramatta Street, Dapto	Not provided	Not provided	RNE	Local	AMBS 2010	No Impact		No impact	No impact
165 Fig 12 ◆	Stapleton's Bridge over Frazer Creek	Tongarra Road, Albion Park	Crossing a stream bed at the edge of a floodplain area, this widened bridge has one main span and cantilever endspans. Originally having three rows of continuous piers and beams, it has now been widened by one extra row on the southern side and two rows on the northern side, providing extra roadway and a northern footway. The beams haunch down to the piers and then up to the terminal cross girders. The new columns are slightly wider than the original columns, but otherwise the widening is very sympathetic. With shale outcropping, it is presumed that the bridge is founded on spread footings. The fill is stabilised by loose rock. At deck level, the widened bridge has New Jersey kerbs with aluminium rails, and an aluminium railing for the footway.	The present Stapleton's Bridge was built in 1929. It was one of more than 1,000 bridges constructed across the State by the Main Roads Board, later the DMR, during the period 1925-1940. The years following the end of World War Two brought massive industrial expansion to the Greater Wollongong area, and its population almost trebled between 1947 and 1971. As a result there was a huge increase in the volume and nature of vehicular traffic, making the development and improvement of roads and bridges a vital part of this process. Guardrails were installed on Stapleton's Bridge in 1986 and in 1989 maintenance was needed to repair end posts and badly spalled concrete in the cantilever section. The bridge was widened in 1991.	RTA s170	Local	AMBS 2010	Within 25 m Road Easement		It is proposed to construct a Water pipeline along Tongarra Road in this location. There is the possibility of construction impacts occurring to this heritage item.	Management action depends on how the pipeline is to cross Frazers Creek if it crosses on a separate structure there is no physical impact (visual curtilage is not of significance). If it crosses on by bolting it to the bridge especially if it is bolted to the 1991 section then the impact on this item will be minimal and no further work will be required.
166 Fig 12 ●	Swanvale	Yellow Rock Road, Tullimbar	Not provided	Not provided		Local	Navin Officer 2004; AMBS 2010	No Impact	No Impact	No impact	

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167 Not mapped ○	Tara' Fig Tree	Pt 102, DP 857876; Ashburton Drive, Albion Park	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	No Impact	No impact	
168 Not mapped ○	The Hill' (site of colliery's first squatters' huts)	Western end of Wongawilli Road, Wongawilli	Not provided	Not provided	Dapto and District Heritage Trail (northern section)	Local	AMBS 2010	No Impact	No Impact	No impact	
169 Not mapped ○	Tongarra Creamery Ruins	Exact location unknown, Illawarra Highway, Tongarra	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	No Impact	No impact	
170 Not mapped ○	Toongla	Lot 82, DP 634605; Tullimbar Road, Albion Park	Not provided	Not provided	SHR; LEP; National Trust	Local	AMBS 2010	Within 25 m Road Easement	No Impact	No impact	
171 Fig 4 & 5 ▲	Tramway/Illawarra Harbour and Land Corporation Railway, Built 1895	From immediately west of the end of Sheaffes Road running south to Bong Bong road where it curves to the west and runs along the southern boundary of Portion 56 till it reaches Dapto.	Remains of a railway line, consisting of track formation and cutting.	Constructed by the Illawarra Harbour and Land Corporation Railway from the South Kembla Colliery to their loading facility at Lake Illawarra with a branch to the Dapto Smelter. Construction began in September 1895 but it is not clear whether the line was us	1990 Wollongong LEP	Local	HLA 2006	Impact	The recorded extent is a cutting and embankment running south-east from Bong Bong Road. There are more remains along the route than is indicated in the HLA report.	Proposed wastewater pipelines cut through the embankment in two places and will follow the tramway along an 800 m section of the alignment. A proposed water pipeline also cuts through the alignment. The pipelines cutting the tramway are unlikely to have a significant impact on the item as large portions will remain intact. If the 800 m is to be on top of the tramway route, which is still evident in the landscape at this point, the construction of the pipeline will remove a significant portion of the tramway, impact on the visibility of the route in the landscape and remove the physical evidence of construction techniques.	It is recommended that the following work be undertaken- A research design be developed to determine if information that cannot be gleaned from other sources could be gained through an archaeological examination of the embankment

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172 Fig 12 ■	Tulkeroo	Lot 1, DP 910045; 23 Calderwood Road, Albion Park	Not provided	Tulkeroo was the manager's residence for the former Albion Park Butter Factory. This Victorian Georgian weatherboard home was built c1885. The Albion Park Butter Factory was built in 1884 in a co-operative effort from local farmers. The butter factory was situated next to the homestead. Tulkeroo is now a private residence.	Shellharbour LEP	Local	AMBS 2010	Within 25 m Road Easement	associated dairy factory demolished	It is proposed to construct a Water pipeline along Calderwood Drive in this location. There is the possibility of vibration impacts occurring to this heritage item	Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
173 Not mapped ○	Tullimbar Inn	Illawarra Highway, Tullimbar	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	No Impact	No Impact	
174 Not mapped ○	Unanderra Footbridge	Illawarra Railway, Unanderra	Not provided	Not provided	Railcorp s170	Local	AMBS 2010	No Impact	No Impact	No Impact	
175 Fig 3 ○	Unanderra Public School, formerly Charcoal Public School	Part Lot 2, DP 795162; corner of Princes Highway and Victoria Street, Unanderra	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
176 Not mapped ○	Unanderra Station	Illawarra Railway, Unanderra	Not provided	Not provided	Railcorp s170	Local	AMBS 2010	No Impact	No Impact	No Impact	
177 Not mapped ○	Unanderra Station Master's Residence	Unanderra Railway Line, Berkeley Road, Unanderra	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
178 Not mapped ○	Water Reservoir	Close to Princes Highway between Avondale Road and Mount Brown Road	Not provided	Not provided		Local	HLA 2004; AMBS 2010	No Impact	No Impact	No Impact	

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179 Fig 4 ●	Wongawilli Colliery	Part Lot 14, DP 255284; Lot 1, DP 321054 and Part Lot 244, Part Lot 255, and Part Lot 258, DP 751278, Wongawilli Road, Wongawilli	Not provided	Not provided	LEP	Local	AMBS 2010	No Impact	No Impact	No Impact	
180 Fig 9 ▲	Yallah Brush	Yallah Road, Yallah	Yallah Brush is located on the corner of Marshall Mount and Yallah Roads. It is an area of lightly wooded grass paddocks. As far as could be ascertained during the field survey, there were no structures within the curtilage of heritage significance.	A search of Land Titles information and early maps and plans indicates that the area seems to have been left over after the sale of the surrounding land. There is no indication of development or use of the land.	Wollongong LEP 1990	Local	AMBS 2010	Corridor passes through boundary		There does not appear to be any archaeological or built heritage values within the area.	The area may have ecological value. Recommend assessment by an ecologist.
181 Not Mapped ○	Yovelton	Lot 676, DP 264470; 2 Wilga Close, Albion Park Rail	Not provided	Not provided		Local	Hynd 2005; AMBS 2010	No Impact	No Impact	No Impact	
182 Fig 3 ◆	New Potential Archaeological Site 1 - Store	West Dapto Road - east of 90° bend	Potential archaeological site - no features were visible during field survey due to 0% ground surface visibility.	Shown as the location of an 'Old Store' on 1889 Kembla Parish Map	None	Local		Item identified during field survey		Pipeline along West Dapto Road. Depending on which side of the road the pipe is laid there is the potential for the site to be disturbed.	It is recommended that the following work be undertaken - Detailed historical research, a remote sensing survey along the route, development of appropriate management options
183 Fig 3 ◆	New Potential Archaeological Site 2 - Public House	West Dapto Road - east of 90° bend	Potential archaeological site - no features were visible during field survey due to 0% ground surface visibility.	Shown as the location of a 'Public House' on 1889 Kembla Parish Map	None	Local		Item identified during field survey		Pipeline along West Dapto Road. Depending on which side of the road the pipe is laid there is the potential for the site to be disturbed.	It is recommended that the following work be undertaken - Detailed historical research, a remote sensing survey along the route, development of appropriate management options
184 Fig 3 ◆	New Potential Archaeological Site 3 - J Barretts Farm	West Dapto Road - east of 90° bend	Potential archaeological site - no features were visible during field survey due to 0% ground surface visibility.	Shown as the location of 'J Barretts Farm' on 1889 Kembla Parish Map	None	Local		Item identified during field survey	Associated with Site 17a – Moreton Bay Figs	Pipeline along West Dapto Road. Depending on which side of the road the pipe is laid there is the potential for the site to be disturbed.	It is recommended that the following work be undertaken - Detailed historical research, a remote sensing survey along the route, development of appropriate management options
185 Fig 3 ◆	New Potential Archaeological Site 4 - Cottage	West Dapto Road - on of 90° bend	Potential archaeological site - no features were visible during field survey due to 0% ground surface visibility.	Shown as the location of a 'Cottage' on 1889 Kembla Parish Map	None	Local		Item identified during field survey	Associated with Site 17b – Moreton Bay Fig	Pipeline along West Dapto Road. Depending on which side of the road the pipe is laid there is the potential for the site to be disturbed.	It is recommended that the following work be undertaken - Detailed historical research, a remote sensing survey along the route, development of appropriate management options

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186 Fig 2 ◆	New Potential Archaeological Site 5 - House	West Dapto Road - western side of road, south of 90° bend	A house and associated outbuildings is shown at this location on the 1951 aerial image. The buildings have since been demolished. However the impression of the remains of a structure is visible on the Nearmap aerial images. These are 23m from the boundary and so are marginally within the potential location for the water pipeline.	House and outbuildings shown on 1951 aerial.	None	Local		Item identified during field survey		Pipeline along West Dapto Road. Depending on which side of the road the pipe is laid there is the potential for the site to be disturbed.	It is recommended that the following work be undertaken - Detailed historical research, a remote sensing survey along the route, development of appropriate management options
187 Fig 4 ◆	New Potential Archaeological Site 6	Hayes Lane, near intersection with Bong Bong Road	The 1889 Parish Plan indicates that there was a hut and yards near the junction of Hayes Lane and Bong Bong Road. The plan attributes these to a Daly.	Hut and yards shown on 1889 Parish Plan	None	Local		Item identified during field survey		Pipeline along Hayes Lane. Depending on route may be impacted.	It is recommended that the following work be undertaken - Detailed historical research, a remote sensing survey along the route, development of appropriate management options
188 Fig 4 ▲	New site - Coral Tree Avenue	Private Road to west of northern end of Hayes Lane	Truncated coral trees, possibly on former fence line. Identified during field survey	Identified during field survey. Not on 1949 aerial	None	None		Item identified during field survey		Water pipeline to follow private road and impact on southern boundary. Wastewater pipeline to cut through eastern and southern boundaries.	While the Coral Trees are not of historical significance, they do add to the scenic quality of the area. It is suggested that the trees are not removed and that root disturbance is minimised to potential of shortening the lifespan of the trees. If this is not possible, however, the Avenue is no impediment on historical grounds.
189 Fig 4 ◆	Bike Ramp	Hayes Lane	Treated timber and steel bike ramp and earth mounds. The ramp is decorated with flames cut from plastic sheeting.	Identified as a potential heritage item by AMBS	None	None		Potential Impact		A water pipeline is proposed along the western side of Hayes Lane. The Bike Ramp is within the 25 m pipeline corridor.	This item is not of heritage significance and requires no further heritage consideration.
190 Fig 6 ●	Bridgewater	Cleveland Road	c.1950/60s clad house. Set over 25 m from road.	Identified as a potential heritage item by AMBS. Former occupant informed AECOM it was owned by the Catholic Church and was to be demolished in two weeks.	None	None		No Impact		No Impact	
191 Fig 12 ■	255 Tongarra Road	255 Tongarra Road	A weatherboard cottage with a hipped roof. A flat verandah has been added on the front and set on cream brick piers. The verandah has been partially enclosed, which somewhat obstructs the reading of the cottage. The front yard is grassed, with a concrete path leading to the front door. Identification of the boundary line was problematic, but the house appears to be between five and seven metres from the boundary.	Potential heritage item	none	None		Item identified during field survey		Potential impact from water pipeline running along Tongarra Road and up Church St	Archaeological monitoring if curtilage is to be impacted. Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.
192 Fig 12 ■	Rose Cottage	257 Tongarra Road	Rose Cottage is a weatherboard cottage set on a red brick wall. The roof, of corrugated iron, appears to be relatively recent and was extended out over the verandah on the same plane. This is unlikely to be an original feature. The front yard is well-developed, with the boundary line occupied by a hedge. The house is set back seven metres from the boundary.	Potential heritage item	none	None		Item identified during field survey		Potential impact from water pipeline running along Tongarra Road and up Church St	Archaeological monitoring if curtilage is to be impacted. Vibration impacts to the item are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

Site No. (Fig No.) Impact Assessment	Name	Location	Description	History	Heritage Listing	Listed Significance	Reference	Impact Assessed Prior to Fieldwork	Comments	Impacts Assessed Post Fieldwork	Management
193 Fig 12 ■	68 Church Street, Albion Park	68 Church Street, Albion Park	A weatherboard house set on the corner of Church Street and Severn Place. The house has a hipped roof and a separate bull-nose verandah. The house is set on stumps and is accessed by a set of concrete steps. The facade is symmetrical, a central door flanked by sash windows. There is a brick chimney stack with three pots. It appears that the rear portion of the house is a sympathetic addition. A garage has been constructed to the northwest of the house. The front yard is grassed and dotted with ornamental trees. The house is set 12 m from the boundary.	Potential heritage item	None	None		Item identified during field survey		Potential impact from water pipeline running along Church Street	Cease works and consult an archaeologist if relics are identified.
194 Fig 6 ◆	Shed (Potential AMBS)	Cleveland Road	Small corrugated iron shed.	Unknown	None	None	AMBS 2010	Potential impact		Potential impact	This item is not of heritage significance and can be removed without further heritage consideration.
195 Fig 4 ●	Wongawilli Rail	West Dapto Road to Wongawilli Village and Mine	A section of intact rail line	A branch railway from the main South Coast Railway near Brownsville to the coal washery and coke works was also built. Coal was lowered down the escarpment by a self-acting skip incline, the junction to the main line was opened in October 1916 and by 1917	West Dapto LEP 2010	Local	HLA 2006	Requires further investigation.		No impact to significance of the Railway Line.	Cease works and consult an archaeologist if relics are identified.

Appendix 2 Heritage Inventory Sheets – Project Approval Area.

Heritage Data Form

ITEM DETAILS							
Name of Item	Kembla Settler's Cemetery (2)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Corner of West Dapto and Reddalls Road						
Suburb/town	Dapto				Postcode	2526	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	28471		Northing	6183398
Owner	NA						
Current use	Cemetery						
Former Use	Cemetery						
Statement of significance	<p>The Kembla Settlers' Cemetery is of historical significance on a local level as it provides a historical record of ordinary people who lived in the area in the early to mid twentieth century, including David Evans, who rescued many people during the Kembla Mine explosion of 1902.</p> <p>The cemetery is also the burial site of several local residents, including one 17 year old who died at Wongawilli Mine. The cemetery thus encompasses a wide social demographic representing the area in the early twentieth century. The site is also of social significance due to its special association with the local community of the Mount Kembla region. The site also possesses some historical association significance on a local level, due to the presence of mine rescue hero David Evans.</p>						
Level of Significance	State <input type="checkbox"/>				Local <input checked="" type="checkbox"/>		

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	<p>The Kembla Grange Settler's Cemetery is overgrown and surrounded by swampy land which is vegetated with reeds. The cemetery is laid out in rows oriented east-west, and the tombstones face east. The two rows of graves closest to Reddalls Road are well formed, however, there is then located a gap and another row to the east – as if there is potential for a row located in between. There is also a gap between a group of graves to the south and north. The graves to the south are interspersed with trees which have planted in the last twenty years or so. The first row of graves is located 11.5m from the sealed road surface. There is a Telstra data cable easement along the eastern road edge. The earliest grave sighted during the field inspection dated to 1907. The most recent dates to 1967. The cemetery is long closed and is not visited, however the monuments are generally in good order and the grounds are maintained and are in reasonable condition, although when the site was inspected on the 17th February 2011 the site was quite overgrown. However, aerial images of the cemetery clearly show the remains of the cemetery layout.</p>						
Physical condition and Archaeological potential	<p>The cemetery is relatively well maintained and in a reasonable condition, although it is currently overgrown. The archaeological potential of the site is very good.</p>						
Construction years	Start year	1907	Finish year	1967	Circa	<input checked="" type="checkbox"/>	
Modifications and dates							

Heritage Data Form

Further comments	Near Maps indicates that a single grave is located to the north-east of the cleared area within an area of dense vegetation. This grave was not visible during survey undertaken on the 17 th February 2011 as the area has not been maintained recently and vegetation was over 1.2m in height and impenetrable. The curtilage for this item will need to be altered to incorporate this outlying grave.
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HISTORY

Historical notes	<p>The land for the Kembla Grange Old Cemetery was Reserved from Sale and gazetted as a cemetery (R37438) on 26th March 1904.</p> <p>Kembla Grange Old Cemetery contains inscriptions dating from 1907 to 1967. It was divided into Anglican, Catholic, Independent, Methodist and Presbyterian portions of which the Presbyterian portion contains the most graves. The number of inscriptions for this cemetery has been identified as being 59 so presumably there are the equivalent numbers of graves.</p> <p>David Evans (d 5 Jan 1916 Age:74 years) who is buried in the cemetery, played a significant role in the rescue of those miners who survived a 1902 blast at Mount Kembla by leading them out a disused adit.</p> <p>The Cemetery was extended to the north on the 26th November 1954 (including the Kembla War Cemetery).</p> <p>In 1968 the existing alignment of Reddall's road was altered to allow Tubemakers Australia to expand to occupy part of the cemetery. The land was resumed and a new road reserved on the 5th July 1968 The old road alignment was closed on the 6th September 1968. It appears that the new section of Reddall's Road is constructed on an embankment raising the road above the level of the cemetery.</p>
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	The Settler's Cemetery is of local historical significance as a record of those ordinary people who lived in the area.
Historical association significance SHR criteria (b)	The cemetery is of local associative significance for its association with David Evans, a local hero who played a significant role in the rescue of several miners who survived a blast at Mount Kembla mine.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item holds some social significance on a local level as it has a special association with the community of Mount Kembla and the local area as a place of interment.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	The integrity of this item could be classified as fair.

HERITAGE LISTINGS

Heritage listing/s	1990 Wollongong LEP
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IMPACT AND RECOMMENDATIONS

Impact	<p>A water pipeline is identified as being constructed along Reddall's Road.</p> <p>The first two rows of graves are within 25m of the boundary of Reddalls Road. These are within the Anglican and Presbyterian sections of the cemetery.</p> <p>The major concern is whether construction on either side of the road will impact on known or unknown burials. A problem with cemeteries is the presence of graves that lack markers (wether by accident of design) which render them almost invisible on the ground surface.</p> <p>The first line of evidence that can be used to answer this question is the extent of the graves shown on the aerial images of the site on the 2nd November 1951. This shows that the visible grave markers are orientated along the main north-south axis of the main drive in the cemetery. Thus it seems likely that the land Tubemakers acquired was considered to be vacant at the time it was resumed and sold. However this impression is based on surface grave markers visible on aerial images only.</p> <p>It is therefore impossible to definitively state that the construction of the water pipeline would not impact on any</p>
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Heritage Data Form

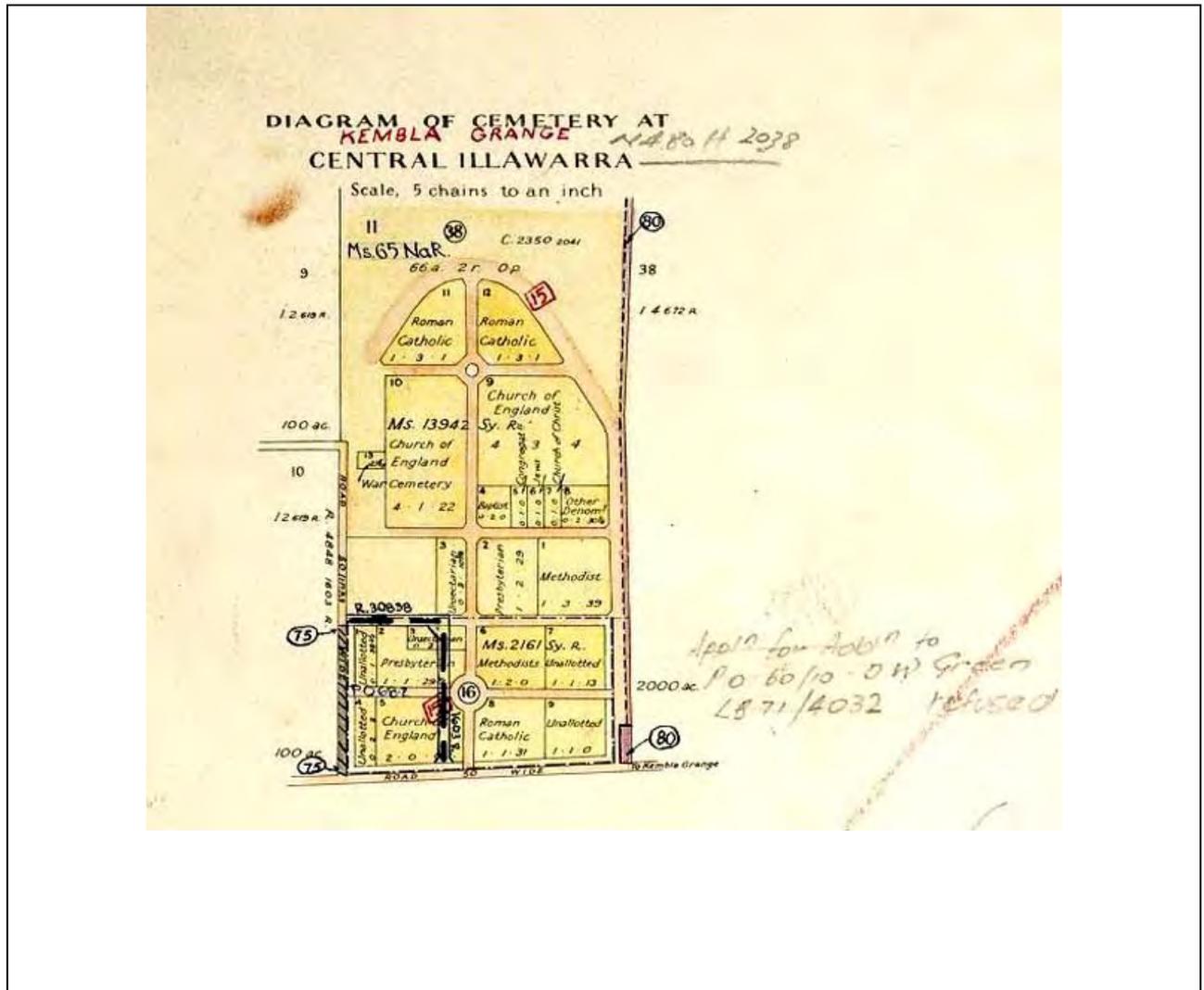
	sub-surface graves, although it should be possible to avoid existing graves.		
Recommendations	<p>Management of Impacts The first management option is to avoid the impact by rerouting the water pipeline although it is recognised that this may not be possible. If rerouting is not an option then it is recommended that Sydney Water commission a more detailed archaeological assessment of the land impacted by construction of the pipeline. This assessment should involve the following tasks:</p> <ul style="list-style-type: none"> • Detailed historical research for any plans of interments at the Cemetery. There is likely to be some correspondence regarding Tubemakers expansion. • A remote sensing survey along the route to identify the possibility of sub-surface graves being located during construction. • Development of appropriate management options (likely to be either excavation underneath any possible grave locations or salvage and reburial of interred bodies) • An application for appropriate permits from the Heritage Branch Department of Planning (either a Section 139a or Section 140 permit) • A program of community consultation is undertaken in order that the community has the opportunity to understand the proposed works and comment on them to ensure that the burials are treated in an ethical and respectful manner in accordance with Anglican and Presbyterian beliefs. • It is relevant to note that if burials are encountered and or need to be exhumed then there are statutory requirements in addition to any heritage requirements – these are partially covered in the NSW Health Policy Directive: Burials – Exhumation of Human Remains (2008). Any exhumation would need to cover the whole burial. <p>Management of the existing graves monuments during construction would require the following works:</p> <ul style="list-style-type: none"> • The location of all known graves and the alignment of the internal cemetery roads within 15 m of the pipe alignment be marked on all plans of the work in this area as items of heritage significance so as to avoid inadvertent disturbance. • Site facilities such as toilets and work sheds be placed to avoid disturbance to graves and to avoid offence (e.g. toilets within the cemetery) • Temporary fencing of the graves by a parra-webbing fence running parallel to Reddalls Road in this section to avoid accidental damage by machinery • All contractors and sub-contractors and Sydney water staff should be briefed on the potential of the area to contain human burials and the procedures (including respectful treatment of human remains and grave sites) to be followed. <p>Provisions for briefing of personnel and for the mitigation works outlined above should be incorporated in any environmental or construction planning for the project such as Environmental Management Plans. Sydney Water should undertake a program of specific community consultation in order that the community has the opportunity to understand the proposed works and comment on them to ensure that the burials are treated in an ethical and respectful manner in accordance with Anglican and Presbyterian beliefs. This would avoid unnecessary community concern about possible disturbance of graves.</p>		
SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	2		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Historical diagram of Cemetery at Kembla Grange , Central Illawarra.			
Image year		Image by		Image copyright holder



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	View north of Settlers Cemetery showing road embankment.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	View south of Settlers Cemetery showing typical grave markers and layout of cemetery.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS						
Name of Item	West Dapto Public School (10)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	150					
Street name	Sheaffes Road					
Suburb/town	West Dapto				Postcode	2530
Local Government Area/s	Wollongong					
Property description						
Location - Lat/long	Latitude				Longitude	
Location - AMG (if no street address)	Zone	56	Easting	295593	Northing	6183225
Owner						
Current use	Pre-school					
Former Use	Public School					
Statement of significance	West Dapto Public School is of local historical, aesthetic and representative significance. It demonstrates the pattern of settlement in the Illawarra and the efforts to educate the growing population in the region. The buildings are of aesthetic significance, being built of attractive sandstone and well-maintained. The School is an excellent representative example of a 1880s rural school and associated residence.					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION						
Designer	Unspecified					
Builder/ maker	Unspecified					
Physical Description	West Dapto Public School comprises two main components – a schoolmaster’s residence located to the east of the property, and the school buildings to the west. Both buildings are constructed of sandstone with skillion roofs of corrugated iron. The residence has a verandah on the southern and western elevations. Modern buildings have been inserted at the rear of the property, as has a fenced playground.					
Physical condition and Archaeological potential	This item is in very good physical condition and possesses moderate archaeological potential.					
Construction years	Start year	1882	Finish year	1883	Circa	<input checked="" type="checkbox"/>
Modifications and dates						
Further comments	A water pipeline is proposed to be constructed along the eastern boundary of the West Dapto Public School. The heritage items may be subject to indirect impacts from construction associated with these proposed works.					

HISTORY	
Historical notes	West Dapto Public School was built on land which was originally granted to William Keevers in 1832. It was subsequently purchased by George McPhail, who donated one acre for the construction of a school. The school

Heritage Data Form

	was built in 1882 from local stone quarried on McPhail's property, and opened in 1883. The school remained in operation until 1972. It currently operates as a pre-school.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	West Dapto Public School is of local historical significance in demonstrating the pattern of development in the Illawarra. It was common for locals to donate land for the establishment of a school.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons important in state or local history.
Aesthetic significance SHR criteria (c)	This item is of local aesthetic significance as it is a well maintained and well presented collection of school buildings.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as is not rare.
Representativeness SHR criteria (g)	West Dapto Public School is of local representative significance as an excellent example of a school and associated residence.
Integrity	This item is in very good physical condition and retains a high degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	Wollongong 1990 LEP.
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IMPACT AND RECOMMENDATIONS

Impact	A water pipeline is proposed to be constructed along the eastern boundary of the West Dapto Public School. The heritage items may be subject indirect impacts from construction.
Recommendations	Vibration impacts to the West Dapto Public School are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	10		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	The school building is on the left and the school master's residence on the right. The proposed pipeline route is to the right of the image on the right hand side of the vegetation lining the fence. View north north west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	Glen Ayr (11)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	167						
Street name	Sheaffes Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	295332		Northing	6183135
Owner	NA						
Current use	Residential						
Former Use	Residential						
Statement of significance	This item is of some historical significance as it is a good example of an early twentieth century farmhouse associated with dairying in the Dapto region, which was a significant industry in the development and history of the area.						
Level of Significance	State <input type="checkbox"/>				Local <input checked="" type="checkbox"/>		

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	"Glen Ayr" homestead is of local significance for its representative and rarity values. It is a simple inter-war period bungalow, uncommon of this period in the region. It is a good example of an early twentieth century farmhouse associated with dairying in the Dapto region, which was a significant industry in the development and history of the area.						
Physical condition and Archaeological potential	'Glen Ayre' is in good physical condition and possesses moderate archaeological potential.						
Construction years	Start year	1922	Finish year			Circa	<input checked="" type="checkbox"/>
Modifications and dates	NA						
Further comments							

Heritage Data Form

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HISTORY

Historical notes	'Glen Ayre' is located within Portion 43 of original grant of James Fraser, who was given 100 acres in c.1832. This homestead was constructed c.1922 by a member of the Smith family, who also owned the property next door. 'Glen Ayre' was developed as a dairy farm. It operated as stables and a saddler until 1981.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item does not meet this criterion as it not important to the cultural history of the local area.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons important in state or local history.
Aesthetic significance SHR criteria (c)	This item is of local aesthetic significance as a well maintained and well presented inter-war bungalow.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item is of local significance as a rare example in the area of an inter-war bungalow.
Representativeness SHR criteria (g)	This item is of local representative significance as it is a good example of an early twentieth century farmhouse associated with dairying in the Dapto region, which was a significant industry in the development and history of the area.
Integrity	The physical condition of this item is excellent and it can be classified as retaining a high degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	Wollongong LEP 1990
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IMPACT AND RECOMMENDATIONS

Impact	A wastewater pipeline is proposed to be constructed between a creek and the homestead building on the western side of the site. Based on the plans it seems the pipeline would be about 10m west of the homestead and outbuildings. The heritage item may be subject indirect impacts from construction.
Recommendations	Vibration impacts to Glen Ayr are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	11		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Glen Ayr house, view south south west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Glen Ayr outbuildings – these structures are the closest to the proposed pipeline route. View north north west.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Rear of Glen Ayr indicating approximate pipeline route. View north				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS						
Name of Item	Moreton Bay Figs (17a)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	NA					
Street name	West Dapto Road					
Suburb/town	Dapto	Postcode		2530		
Local Government Area/s	Wollongong					
Property description						
Location - Lat/long	Latitude			Longitude		
Location - AMG (if no street address)	Zone	56	Easting	297769	Northing	6183384
Owner	NA					
Current use	Trees					
Former Use	Trees					
Statement of significance	<p>These items are not historically significant in themselves, but may indicate the presence of the archaeological site of a public house indicated on the 1898 Kembla Parish Plan. The potential archaeological site of the former public house associated with the figs is of local research significance. If archaeological relics exist, they have the potential to provide information regarding the construction and operation of this unknown public house.</p>					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION						
Designer	NA					
Builder/ maker	NA					
Physical Description	<p>Two adjacent Moreton Bay Figs (<i>Ficus macrophylla</i> var <i>hillii</i>) situated in a cleared paddock. The specimens are parallel to a significant section of early timber and wire fencing. Both trees are in a poor condition, they are possibly nearing the end of their lifespan. Their branches are rotting and they have only sparse foliage. There is no evidence of associated cultural activity. One tree is approximately 23m from the property fence, and it is approximately 7m from the edge of the sealed road to the boundary fence. The canopy of the tree is 5m from the boundary fence.</p>					
Physical condition and Archaeological potential	<p style="color: blue;">These trees are in poor physical condition, they are possibly nearing the end of their lifespan. Due to the limited ground visibility during the survey further investigation is required to determine whether evidence remains of the public house..</p>					
Construction years	Start year		Finish year		Circa	<input type="checkbox"/>
Modifications and dates	NA					
Further comments	NA					

Heritage Data Form

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HISTORY

Historical notes	The Moreton Bay Fig is a typical early planting introduced throughout the West Dapto region used for ornamental purposes and as windbreaks to protect nearby homesteads and associated buildings.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	These items do not meet this criterion as they are not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	These items do not meet this criterion as they do not have a strong or special association with a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	These items do not meet this criterion as they do not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	These items do not meet this criterion as they do not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	These items do not meet this criterion as they are not rare.
Representativeness SHR criteria (g)	These items do not meet this criterion as they do not demonstrate the principal characteristics of a class of state or local cultural places/environments.
Integrity	These items are in poor condition and can be classified as possessing only limited integrity.

HERITAGE LISTINGS

Heritage listing/s	Not listed.
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RECOMMENDATIONS

Impacts	A water pipeline is proposed to be constructed along West Dapto Road in this area. It is possible that construction work may impact on Site 17a – the two figs by disturbing their roots or by requiring their removal.
Recommendations	<p>The trees themselves are not of heritage value, however, they do mark the potential site of New Archaeological Site 3 – Potential Remains of J Barretts Farm (184). It is therefore recommended that the area be avoided and the pipelines located within the road reserve. If this is not practicable the following management is recommended:</p> <ul style="list-style-type: none"> ○ Align pipes 15 m from the fig tree trunks. If this is not possible it is recommended an arborist is consulted regarding the health of the trees and the best way to proceed; ○ Develop a clearer understanding of the archaeological potential of the site by undertaking the following: <ul style="list-style-type: none"> ○ Vegetation removal to allow for a more detailed visual inspection ○ A remote sensing survey along the route to identify the possibility of sub-surface remains of the buildings being located during construction ○ Development of appropriate management options (likely to be either test excavation prior to construction, archaeological monitoring during construction or no further archaeological work)

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	17a		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		

Heritage Data Form

NSW Heritage Manual guidelines used?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	21/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	View of fig trees, west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	Moreton Bay Fig (17b)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	West Dapto Road						
Suburb/town	Kembla Grange		Postcode	2526			
Local Government Area/s	Wollongong						
Location - AMG (if no street address)	Zone	56	Easting	297605	Northing	6183590	
Owner	NA						
Current use	Trees						
Former Use	Trees						
Statement of significance	The Fig Tree is of local aesthetic significance as a landmark that adds to the local scenery. The associated potential archaeological site is also of local significance for its potential to inform regarding the construction, operation and subsequent abandonment of a forgotten structure.						
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>			

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	Large, mature, flourishing Moreton Bay Fig surrounded by dense vegetation. AMBS name – Moreton Bay Fig – West Dapto Road – adjacent to Dapto Creek. Trunk 15m from boundary fence. Canopy touches boundary fence and road corner.						
Physical condition and Archaeological potential	The Moreton Bay Fig tree is in excellent physical condition. There is moderate to high potential for archaeological deposits associated with the cottage indicated on the 1889 Kembla Parish Map to be in the vicinity.						
Construction years	Start year	NA	Finish year	NA	Circa	<input type="checkbox"/>	
Modifications and dates	NA						
Further comments	NA						

HISTORY	
Historical notes	The Kembla Parish Plan for 1889 indicates a 'Cottage' (site 185) in the vicinity of the Moreton Bay Fig. At this stage no further details are available regarding the extent or use of the structure.

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	The Moreton Bay Fig is of local aesthetic value as a dominant feature in the landscape and as a fine example of the tree type, which enhances the local scenery.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.

Heritage Data Form

SHR criteria (e)	
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it no longer represents its class.
Integrity	NA

HERITAGE LISTINGS

Heritage listing/s	This tree is listed on the West Dapto LEP (2010)
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IMPACT AND RECOMMENDATIONS

Impact	It is possible that construction work may have an impact on Moreton Bay Fig (17b) by disturbing its roots or by requiring its removal. Root disturbance may lead to a reduction in the lifespan of the tree. The death or removal of the tree will obliterate the Fig's heritage significance.
Recommendations	<p>The tree is of local significance and listed on the 2010 Wollongong LEP. It is therefore recommended that impact be avoided. The tree also marks the potential site of New Archaeological Site 4 – Cottage (185). It is therefore, on this second count, recommended that the area be avoided and the pipelines located within the road reserve. If this is not practicable the following management is recommended:</p> <ul style="list-style-type: none"> • Align pipes 10 m from the fig tree canopy. If this is not possible it is recommended an arborist is consulted regarding the health of the trees and the best way to proceed; • Develop a clearer understanding of the archaeological potential of the site by undertaking the following: <ul style="list-style-type: none"> ○ Vegetation removal to allow for a more detailed visual inspection ○ A remote sensing survey along the route to identify the possibility of sub-surface remains of the buildings being located during construction ○ Development of appropriate management options (likely to be either test excavation prior to construction, archaeological monitoring during construction or no further archaeological work).

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	
Item number in study or report	17b		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Susan Lampard	Date	30/03/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Moreton Bay fig tree				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS							
Name of Item	"Brisbane Grove" Homestead, Garden and Dairy (18)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	206						
Street name	West Dapto Road						
Suburb/town	West Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	295212		Northing	6182376
Owner	Unspecified						
Current use	Private residential and dairy						
Former Use	Private residential and dairy						
Statement of significance	This item is of local historical significance as it is an example of a late nineteenth century rural homestead and associated dairy buildings, which provide a representation of a traditional dairy, including a timber milking shed, washroom, concrete drainage platform, separator and washroom, bailing area, stock and holding yards.						
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>			

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	<p>The site comprises of the original homestead, garden, dairy outbuildings and a modern house. The original homestead is located behind the modern house and is a single storey building with a hipped roof and verandah at the front and rear elevations. The homestead was most likely constructed from timber and has since been altered with fibro extensions on three sides for the addition of a laundry and to enclose and extend the internal living space. The roof is the only remaining externally readable heritage feature. The homestead faces away from West Dapto Road and has extensive views of the escarpment.</p> <p>On the right of the homestead there are several small citrus plantings and a European Beach Tree. A large mature Moreton Bay Fig tree is situated between the original homestead and the modern house. A row of Poplars line the entrance to the property.</p> <p>Several dairy outbuildings provide a representation of traditional dairy featuring a timber milking shed, washroom, concrete drainage platform, separator and washroom, bailing area, stock and holding yards. The outbuildings consist of corrugated iron, weatherboard and Bessa block extension as well as a new shed and silo. The property includes a complete cattle run which appears to still be in use but not on a day to day basis.</p>						
Physical condition and Archaeological potential	This item is in a reasonably good physical condition and has a moderate level of archaeological potential.						
Construction years	Start year				Finish year		
					Circa	<input type="checkbox"/>	
Modifications and dates	Several, but particulars unspecified.						

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Further comments	The proposed pipeline will impact the more modern structures on this property – the silo, a 2-car garage/shed (corrugated iron 1908s/1990s at earliest and a 4-door garage/shed clad with gyprock – appears older – 1970s. All have roller doors.
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HISTORY

Historical notes	There are few historical records available. The design of the building indicates that it was constructed in the late 1800s. Early photographs show the homestead with a simple picket fence. The property was formerly owned by five generations of the Smith family.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is of local historical significance as it is an example of a late nineteenth century rural homestead and associated dairy buildings, which provide a representation of a traditional dairy, including a timber milking shed, washroom, concrete drainage platform, separator and washroom, bailing area, stock and holding yards.
Historical association significance SHR criteria (b)	This item is of local significance for its association with the Smith family – a prominent local family, other branches of which built and/or occupied Coral Vale and Glen Ayr.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical achievement.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	This item possesses a low to moderate level of integrity due to subsequent alteration and modifications to the original homestead.

HERITAGE LISTINGS

Heritage listing/s	Wollongong LEP 1990
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RECOMMENDATIONS

Impacts	<p>Water pipeline and Wastewater pipe are proposed to be constructed along West Dapto road however the older and heritage listed buildings are over 70m from the boundary so the construction of these items will have no impact on heritage.</p> <p>A Wastewater pipeline is proposed to branch from West Dapto Road and run along the western side of the buildings. Construction of this will result in the demolition of some farm buildings including the old dairy buildings. The original homestead will be just within 25m of the wastewater pipeline route.</p>
Recommendations	<p>The first and preferred option is to move the wastewater pipeline 25m to the north west (parallel to its current proposed route) to avoid impacts on the farm outbuildings.</p> <p>If the outbuildings are to be demolished then they are of sufficient heritage significance to justify an archival recording being made of the building using the guidelines How to prepare Archival Recording of Heritage Items issued by the New South Wales Heritage Office in 1998. The requirements for items of Local Significance and for items involving Industrial Archaeological Evidence should be followed.</p> <p>Vibration impacts to Brisbane Grove are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.</p>

Heritage Data Form

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	18		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	22/02/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Brisbane Grove House – front elevation. View south west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Brisbane Grove outbuildings. View south west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS							
Name of Item	Derelict House (19)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	West Dapto Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	297769	Northing	6183384	
Owner	Unspecified						
Current use	Derelict House						
Former Use	Residence						
Statement of significance	<p>The Derelict House is of local significance for its historical and research values. The House provides a record of the pattern of settlement in the Illawarra and has the potential, through the associated archaeological deposits, to shed light on the lifeways of early residents.</p>						
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>			

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	<p>The site comprises a derelict homestead, remnant gardens and outbuildings. The house is situated at road level approximately 50-60 m from West Dapto Road. The house is an L shaped, single storey weatherboard house with a corrugated iron hipped roof and front verandah. The homestead has five main rooms and although deteriorating, has original features including timber architrave, decorative pressed ceilings, timber panelled doors and brick fireplaces and chimneys (indicative of c. 1880s). The homestead is surrounded by dense lantana and rubbish, however there is evidence of a previous garden containing small shrubs, geranium plantings and a Flame Tree. A mature Moreton Bay Fig Tree is situated to the north of the homestead.</p> <p>There are several small iron and timber sheds, a container from a truck, two water tanks and a garage amongst the overgrown lantana. Of note is a large timber shed containing an extensive line of intact original timber feed troughs and pens, most likely relating to a former piggery. A Telstra service cable is just within the property boundary, disturbing the archaeology.</p>						
Physical condition and Archaeological potential	This item is in poor to fair condition and possesses moderate archaeological potential.						
Construction years	Start year			Finish year			Circa <input type="checkbox"/>
Modifications and dates	NA						

Heritage Data Form

Further comments	NA

HISTORY	
Historical notes	No specific historical information is available at this time.

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item is historically significant as it provides a record of ordinary residents who lived in the Dapto area from the mid-nineteenth century through to the present day.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or group.
Technical/Research significance SHR criteria (e)	The Derelict House is of local research significance as the potential archaeological deposits associated with the structures have the potential to shed light on the lifeways of rural residents of the Illawarra.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	This item is in poor to fair physical condition and possesses a moderate degree of integrity.

HERITAGE LISTINGS	
Heritage listing/s	NA

IMPACT AND RECOMMENDATIONS	
Impact	Will not be impacted as is well beyond 25m from the property boundary on West Dapto Road
Recommendations	

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study			19

Heritage Data Form

or report			
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	House (19), view west showing distance from road				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	House (19), view west showing distance from road				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS						
Name of Item	West Dapto Catholic Cemetery (20)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	NA					
Street name	West Dapto Road					
Suburb/town	Dapto			Postcode	2530	
Local Government Area/s	Wollongong					
Property description						
Location - Lat/long	Latitude				Longitude	
Location - AMG (if no street address)	Zone	56	Easting			Northing
Owner	NA					
Current use	Cemetery					
Former Use	Cemetery					
Statement of significance	West Dapto Catholic Cemetery is of local historical significance as it provides a record of ordinary residents who lived in the Dapto area from the mid-nineteenth century through to the present day. This item is also of social significance due to its strong and special association with the community of Dapto and the surrounding area.					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION						
Designer	NA					
Builder/ maker	NA					
Physical Description	West Dapto Catholic Cemetery is a well maintained cemetery. The fenced cemetery area is 70m from the property boundary fence. The cemetery is divided into two main sections by a grass path. The 'right' section is more sparsely populated and features earlier dated headstones. The site is bounded by a wire and timber fence and mature eucalypts. Entrance is via a decorative (c.1940s) metal gate. Unusually, the headstones face west, except for a single row at the rear of the cemetery which face east.					
Physical condition and Archaeological potential	This item is in maintained and in good physical condition. It has good archaeological potential.					
Construction years	Start year		Finish year		Circa	<input type="checkbox"/>
Modifications and dates	NA					

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Further comments	The earliest grave sighted during the field inspection dated to 1869. The most recent grave sighted dates to 2010.

HISTORY

Historical notes	There is no historical information currently available for this item.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is historically significant as it provides a record of ordinary residents who lived in the Dapto area from the mid-nineteenth century through to the present day.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item is of social significance due to its strong and special association with the community of Dapto and the surrounding area.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	The integrity of this item could be classified as good.

HERITAGE LISTINGS

Heritage listing/s	Wollongong LEP 1990; National Trust
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IMPACT AND RECOMMENDATIONS

Impact	None
Recommendations	Despite no heritage impacts being identified it is recommended that Sydney Water undertake specific consultation with the Catholic community to explain the project and to assure the community that there will be no heritage impacts on the Cemetery.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	208		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Entrance gate to the cemetery				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS							
Name of Item	House (21)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	206						
Street name	West Dapto Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	295183		Northing	6182184
Owner	Unspecified						
Current use	Residence						
Former Use	Residence						
Statement of significance	This c.1940s house is of some local historical significance as it provides evidence of vernacular style rural residential buildings dating from the mid twentieth century in the Dapto region.						
Level of Significance	State <input type="checkbox"/>				Local <input checked="" type="checkbox"/>		

DESCRIPTION									
Designer	NA								
Builder/ maker	NA								
Physical Description	<p>The house (c. 1940s) is situated 12 m from West Dapto Road, just to the south of a 90° bend and faces south east. The house is of timber weatherboard with leadlight windows in the front room. These appear to be original. The front facade is L shaped and in-filled with a verandah supported by brick posts.</p> <p>There is a partially dismantled garage to the west of the house. An assortment of other outbuildings surround the house. To the north east, near the Concrete Bridge (22) two railway sleepers have been reused to create gateposts.</p>								
Physical condition and Archaeological potential	<p>The house is in poor condition. The archaeological potential between the house and property boundary within the 25m road easement corridor is limited.</p>								
Construction years	Start year				Finish year			Circa	<input type="checkbox"/>
Modifications and dates									
Further comments	NA								

Heritage Data Form

HISTORY	
Historical notes	Associated with a c.1920s homestead (Site #19).

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item is of local historical significance as it provides evidence of vernacular style rural residential buildings dating from the mid twentieth century in the Dapto region.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information which could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	This item is in fair physical condition and possesses a moderate degree of integrity.

HERITAGE LISTINGS	
Heritage listing/s	NA

RECOMMENDATIONS	
Impact	<p>A Water pipeline is proposed to be construction along West Dapto Road. Depending on how the water pipeline is to cross Dapto Creek and on which side of Dapto Road it is constructed there will be either no impact or potentially a direct impact.</p> <p>If the pipeline is constructed the north-west side of West Dapto Road then potentially the house will be impacted by construction of the water pipeline. The tin shed fronting West Dapto Road will be impacted on.</p>
Recommendations	<p>First management option is to minimise the impact by ensuring that the water pipeline is located on the south eastern side of the road or is located within the current road reserve.</p> <p>If the house is to be demolished then it is of sufficient heritage significance to justify an archival recording be made of the building using the guidelines How to prepare Archival Recording of Heritage Items issued by the New South Wales Heritage Office in 1998. The requirements for items of Local Significance should be followed.</p> <p>The tin shed can be removed without any further recording.</p> <p>If the House is to remain, vibration impacts are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.</p>

Heritage Data Form

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report			21
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	22/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	206 West Dapto Road, front elevation, view north north west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS						
Name of Item	Concrete Bridge (22)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	NA					
Street name	West Dapto Road					
Suburb/town	Dapto			Postcode	2530	
Local Government Area/s	Wollongong					
Property description	The item is located between Sheaffes and Darkes Roads, Dapto.					
Location - Lat/long	Latitude				Longitude	
Location - AMG (if no street address)	Zone	56	Easting	295172	Northing	6183267
Owner	NA					
Current use	Bridge					
Former Use	Bridge					
Statement of significance	This item is of local historical and representative significance as it provides evidence of an important development in the course of history in the local Dapto area, as it is an intact example of the use of reinforced concrete and steel in the early twentieth century, which rapidly superseded the use of timber throughout Australia at the end of World War 1.					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION						
Designer	NA					
Builder/ maker	NA					
Physical Description	This item consists of a small reinforced concrete bridge, dating to c. 1920, which is located on West Dapto Road as it crosses a tributary of Robins Creek. The bridge is constructed from concrete supports and base with steel railings supported by four concrete pillars. The field inspection conducted in February 2011 revealed that since 2005, when it was originally recorded by HLA, it appears that the road has been raised and new steel guard rails erected. An earlier railing is still evident on the southern side but has been removed from the north. A sewer rising main is located on the southern side of the bridge.					
Physical condition and Archaeological potential	This item is in fair to reasonable physical condition and possesses low archaeological potential.					
Construction years	Start year	1920	Finish year		Circa	<input checked="" type="checkbox"/>
Modifications and dates	NA					
Further comments	Project Approval Area					

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HISTORY

Historical notes	This bridge is an intact example of the use of reinforced concrete and steel in the early twentieth century, which rapidly superseded the use of timber at the end of World War 1. This bridge most likely replaced an earlier, less stable timber bridge.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is of some local historical significance as it is evidence of an important development in the course of history in the local area, as it provides an intact example of the use of reinforced concrete and steel in the early twentieth century, which rapidly superseded the use of timber at the end of World War 1.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information which could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item is of local representative significance as it provides evidence of the use of reinforced concrete and steel in the early twentieth century, which rapidly superseded the use of timber at the end of World War 1 in the Dapto area.
Integrity	This item is in a reasonable physical condition and has retained a moderate to high level of integrity.

HERITAGE LISTINGS

Heritage listing/s	NA
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RECOMMENDATIONS

Impact	A water pipeline is proposed to be constructed along West Dapto Road. Impacts will depend on how the pipeline is to cross the creek. If it crosses on a separate structure there will be no impact as the visual curtilage is not of significance. If it crosses on by bolting it to the bridge then the impact on this item will be minimal and no further work will be required
Recommendations	It is not listed and not a relic so no further heritage consideration is necessary as the bridge is of a standard design and is not of heritage significance.

SOURCE OF THIS INFORMATION

Name of study or report		Year of study or report	2011
Item number in study or report			
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Concrete Bridge at West Dapto				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS						
Name of Item	Concrete Bridge West Dapto Road (22b)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	NA					
Street name	West Dapto Road					
Suburb/town	West Dapto	Postcode	2530			
Local Government Area/s	Wollongong					
Property description	Bend in West Dapto Road. Adjacent to Moreton Bay Fig and 1940s house (21).					
Location - Lat/long	Latitude		Longitude			
Location - AMG (if no street address)	Zone		Easting	297562	Northing	6183593
Owner	NA					
Current use	Road Bridge					
Former Use	Road Bridge					
Statement of significance	Fabric has no historical significance.					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION	
Designer	NA
Builder/ maker	NA
Physical Description	Concrete bridge topped with latter steel guard rails. Original section appears to be formed poured on site. Later pre-fabricated additions on either side. Two steel water mains adjacent to Southern side of bridge.
Physical condition	This bridge is of good physical condition and is still being used as a transport route in West Dapto. The

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and Archaeological potential	archaeological potential for this site is considered to be low.					
Construction years	Start year	NA	Finish year		Circa	<input type="checkbox"/>
Modifications and dates	NA					
Further comments	Misidentification of the HLA recording.					

HISTORY

Historical notes	No historical information regarding the bridge is available at this time.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare
Representativeness SHR criteria (g)	This item does not meet this criterion as it no longer represents its class
Integrity	NA

HERITAGE LISTINGS

Heritage listing/s	The Bridge is not listed on any heritage register
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IMPACT AND RECOMMENDATIONS

Impact	A water pipeline is proposed to be constructed along West Dapto Road. Impacts will depend on how the pipeline is to cross the creek. If it crosses on a separate structure there will be no impact as the visual curtilage is not of significance. If it crosses on by bolting it to the bridge then the impact on this item will be minimal and no further work will be required
Recommendations	This item is not of heritage significance and does not require heritage mitigation measures

IMAGES - 1 per page

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Please supply images of each elevation, the interior and the setting.

Image caption	Concrete bridge (22b), view south				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS							
Name of Item	Fence – West Dapto Road (23)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	West Dapto Road						
Suburb/town	Dapto			Postcode	2530		
Local Government Area/s	Wollongong						
Property description	Fence is located to the west of railway siding into Onesteel near power pole FDR7099.						
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	295593	Northing	6183225	
Owner	NA						
Current use	Fence						
Former Use	Fence						
Statement of significance	This item does not meet the significance threshold.						
Level of Significance	State <input type="checkbox"/>			Local <input type="checkbox"/>			

DESCRIPTION						
Designer	NA					
Builder/ maker	NA					
Physical Description	<p>This item consists of an extensive section of early remnant post and rail fencing located along West Dapto Road, running parallel to two significant mature fig trees. It was recorded by HLA as featuring a small section of early post and rail fencing which remains from a previous extensive property boundary. Intact morticed wooden fence posts with holes measuring approximately 20cm high by 10cm wide are present. Three rows of barbed wire replaces original timber rails. Some posts have been replaced with star pickets.</p> <p>A field inspection in February 2011 identified no immediate evidence of former rails from early post and rail fencing as recorded by HLA. The gate is marked as an access point for Integral Energy. The twin fig trees are also in poor condition.</p>					
Physical condition and Archaeological potential	This item is in poor physical condition and possesses limited archaeological potential.					
Construction years	Start year		Finish year		Circa	<input type="checkbox"/>
Modifications and dates	NA					

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Further comments	NA

HISTORY

Historical notes	Typically the post and rail fence is recorded as the oldest style of fencing in common use in Australia until being replaced by the more cost effective wire fence from the 1850s and 1860s (Pickard 1998). It is however likely that the use of post and rail continued during the early 20th century. Historical photographs of West Dapto Road dating to c.1938-1940 shows extensive alignments of post and rail fencing.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is of some local historical significance as it provides an example of a fencing style that was important in the course of local history and in a wider Australia context as well.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it no longer represents its class.
Integrity	This item is in poor physical condition and retains only a low degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	NA
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RECOMMENDATIONS

Impact	A water pipeline is proposed to be constructed along West Dapto Road in this area. It is possible that construction work may require the removal of the fence
Recommendations	The fence is no impediment on heritage grounds. No management is required

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	23		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Fence, view west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS							
Name of Item	Modern House and Farm Buildings 24a						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	West Dapto						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	294665		Northing	6182634
Owner	Unspecified						
Current use	Residence						
Former Use	Residence						
Statement of significance	The fabric of this item is not significant. This item is not historically significant.						
Level of Significance	State <input type="checkbox"/>				Local <input checked="" type="checkbox"/>		

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	This item comprises a modern c.1980s/90s house constructed of plastic weatherboard, a stockyard, silo, and sheds. A c.1940s silo with cylindrical roof is situated on the eastern side of the access track to the property. A large corrugated iron shed supported by bush timber posts houses heavy farm machinery. A timber frame of a shed is located at the entry to the property.						
Physical condition and Archaeological potential	This item is in reasonable physical condition. It possesses low archaeological potential.						
Construction years	Start year				Finish year		
Modifications and dates	NA						
Further comments	NA						

HISTORY	
Historical notes	There is no historical information available pertaining to this item.

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of

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SHR criteria (c)	creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural places/environments.
Integrity	This item retains a moderate degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	NA
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IMPACT AND RECOMMENDATIONS

Impact	A water pipeline is proposed to run on a south west-north east axis across the farm just to the north west of the modern house. A wastewater pipeline is proposed to run down the creek valley immediately north of the buildings. There will be no impact on items of heritage significance
Recommendations	No recommendations are required as the item is not considered to be of heritage significance

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2010
Item number in study or report	24		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption					
Image year		Image by		Image copyright holder	

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IMAGE

photograph, sketch, map

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ITEM DETAILS						
Name of Item	Wongawilli Village (26 & 27)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	NA					
Street name	Wongawilli Road					
Suburb/town	Wongawilli			Postcode	2530	
Local Government Area/s	Wollongong					
Property description						
Location - Lat/long	Latitude				Longitude	
Location - AMG (if no street address)	Zone	56	Easting			Northing
Owner	Multiple residents					
Current use	Residential					
Former Use	Residential					
Statement of significance	<p>The Wongawilli Village is of local historical significance as it demonstrates the evolution and expansion of mining in Wongawilli through the gradual construction of the town and the slow process of developing from an impermanent, ephemeral town to a permanent place of residence. This is also a rare evolution for a mine town, most being constructed in a short time frame and with similar, if not identical, architectural details. It is also of social significance for its strong association with the local community of Wongawilli.</p>					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION						
Designer	NA					
Builder/ maker	NA					
Physical Description	<p>Wongawilli Village comprises a collection of houses which were built to service the mine. All of different architectural styles and periods. Houses generally set 5m from the boundary fence. The local church is set back 20m. The distance from the boundary fence to the sealed road is 9.7m. The distance from the boundary fence to culverts is 7.6m.</p>					
Physical condition and Archaeological potential	<p>Wongawilli Village is in very good physical condition and retains a high degree of integrity. It possesses good archaeological potential.</p>					
Construction years	Start year				Finish year	Circa <input type="checkbox"/>
Modifications and dates						
Further comments	Wongawilli Village is located within 25m of the road easement.					

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HISTORY	
Historical notes	A survey for the subdivision of a village on the plain of the escarpment on the southern side of Wongawilli Road was undertaken in 1934 and the allotments created in 1936. The lots were based on a standard 19.1m frontage and depth of 70m and 13,200 feet, over twice the size of lots used in common subdivision. The subdivision layout consisted of a unique linear group of single storey structures in a single line along Wongawilli Road. A number of community facilities were established within the subdivision, including a public school built in 1927 and a church previously erected in 1917 near the coke ovens was also moved to the village in 1933. Electricity was supplied to the houses from the mine in 1937 by steel poles positioned along the rear of each lot. A Post Office and shop opened between 1941-1950 and in 1950-1952 a Community Hall was constructed by volunteers on land supplied by the mine.

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item is of local historical significance as it demonstrates the evolution and expansion of mining in Wongawilli through the gradual construction of the town and the slow process of developing from an impermanent, ephemeral town to a permanent place of residence.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of significance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item is of social significance on a local level due to its strong enduring association with the community of Wongawilli.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.
Rarity SHR criteria (f)	This item is of local significance as a rare example of a mine town developed over a period of time and demonstrating a variety of styles. Mine towns were more usually built within a short space of time and were of similar architectural styles, if not identical.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	This item is in a very good physical condition and retains a high degree of integrity.

HERITAGE LISTINGS	
Heritage listing/s	NA

IMPACT AND RECOMMENDATIONS	
Impact	<p>A water pipeline is to be constructed along Wongawilli Road (a continuation of West Dapto Road) to its junction with Jersey Farm Road. A branch runs along Shone Avenue and another branch runs along Jersey Farm Road.</p> <p>A wastewater pipeline runs along Wongawilli Road (a continuation of West Dapto Road) as far west as the Wongawilli Tennis Court</p> <p>There is a very limited space between the drainage culverts along Wongawilli Road and the fences of the properties to the south – the space is typically between 6.5 and 6.8 m between the property boundary and the houses.</p> <p>There is, however, ample space on the northern side of Wongawilli Road, which is currently farmland.</p>
Recommendations	<p>Ideally the best approach would be to construct both pipelines on the northern side of Wongawilli Road as this would have least impact on the heritage items in the area. If this is not a feasible option then the most intrusive pipeline should be constructed on the northern side.</p> <p>Variety of possible impacts on Heritage Items at Wongawilli during construction can be predicted. Most of these impacts will be controlled through normal mitigation measures to ensure that the activities comply with relevant legislation and regulations such as:</p>

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	<ul style="list-style-type: none"> • The Protection of the Environment Operation Act 1997 (POEO Act) and Regulations. • Protection of the Environment Operations (Clean Air) Regulation 2002. • Environmental Planning & Assessment Act 1979 and Regulations. <p>It is anticipated that Sydney Water and its contractors will implement controls to ensure compliance with this legislation and this will, in turn, protect the heritage Items and Conservation Areas from most of the impacts from construction.</p> <p>Excessive vibration can, in some cases, cause damage to buildings and their contents (contents could be important as part of a building's heritage significance). Given that the proposed pipelines run past heritage items Sydney Water and its contractors will need to minimise any potential damage to buildings or their contents through vibration. Vibration impacts are likely to occur along the entire route of the pipelines at Wongawilli during construction.</p> <p>Australian Standards for acceptable levels of vibration on heritage structures are poorly developed. A brief review of Construction Noise and Vibration Plans has identified two relevant standards to consider these are British Standard 7385: Part 2-1993 Evaluation and measurement for vibration in buildings Part 2 and German Standard DIN 4150-3 1999: Structural Vibration – Part 3: Effects of vibration on structures. The German Standard has specific information regarding heritage buildings and would appear to be the most relevant standard.</p> <p>Sydney Water should ensure that vibration levels do not exceed those recommended for heritage buildings in DIN 4150-3 1999: Structural Vibration – Part 3: Effects of vibration on structures and achieve this through the process of preparing a vibration management plan which would review the construction methods, predict vibration impacts and undertake appropriate amelioration methods.</p> <p>In particular the steel culverts (made be recycled steel pipe) are considered to be of heritage significance and would have to remain in situ or removed and replaced.</p>
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SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	26 & 27		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	22/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Wongawilli Road, view east, showing set back of property boundaries and houses from road. Note culvert along road				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Wongawilli Community Hall				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Wongawilli Tennis Court, view south				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS						
Name of Item	Barlyn Homestead, Gardens and Dairy (30)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	105-109					
Street name	Darkes Road					
Suburb/town	Dapto				Postcode	2530
Local Government Area/s	Wollongong					
Property description						
Location - Lat/long	Latitude				Longitude	
Location - AMG (if no street address)	Zone	56	Easting	Homestead: 296988 Gardens/Dairy: 297128	Northing	Homestead: 6182306 Gardens/Dairy: 6182289
Owner	Unspecified					
Current use	Rural Residential					
Former Use	Rural Residential					
Statement of significance	<p>Barlyn is of local historical significance as it is an intact example of a rural residence, garden and dairy typical of the area dating from the twentieth century. Dairying was an important activity in the development and history of the local area throughout the nineteenth and twentieth centuries. The garden is also of local representative significance as it is a good example of an early garden in the area, featuring a number of original ornamental plantings, including palm trees, conifers on either side of the front entrance, mature figs, pepper trees, and citrus plantings that were typical of those planted within the Dapto region.</p>					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION	
Designer	NA
Builder/ maker	NA
Physical Description	<p>"Barlyn" homestead is a single storey weatherboard structure elevated on brick and timber foundations. A wrap-around bullnose corrugated iron verandah features on the front elevation and part of the eastern elevation. There are timber railings on the verandah. The western elevation is enclosed partly in fibro. There are two formal entrances, one on the front elevation and one on the eastern elevation. Both have concrete steps and decorative balustrades. The homestead is accessed by an original track extending from the dairy, which is adjacent to Darkes Road, lined with an avenue of coral trees.</p> <p>The garden is overgrown but has a number of original ornamental plantings, including palm trees, conifers on either side of the front entrance, mature figs, pepper trees, and citrus plantings. An original section of sandstone garden edging features at the front elevation and a remnant path leads to the entrance on the eastern elevation. Large stone pavers are located at the rear of the property extending to outside the existing fenceline to a potential former structure. An original staggered brick fence is evident on the eastern and front elevations.</p> <p>The dairy is intact and retains its original layout. Structures include a reinforced concrete silo, stockyard, holding yards, concrete drainage area, brick milking shed with c. 1940s equipment, and associated timber and corrugated iron sheds.</p> <p>During the field inspection conducted in February 2011, the access point/owner could not be found to request permission to access the property. It appears that the pipe will directly impact a corrugated iron dairy outbuilding on the property. This structure has a corrugated iron, horizontal flat roof. There is an open feedshed in front with mesh troughs for hay.</p>
Physical condition and Archaeological potential	This item is in good physical condition and possesses a moderate level of archaeological potential.

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Construction years	Start year		Finish year		Circa	<input type="checkbox"/>
Modifications and dates	NA					
Further comments	This item is within 50m of the road corridor.					

HISTORY

Historical notes	Parish plans from the late 19th and early 20th century reveal that the site was originally located on a 100 acre property belonging to John Robins, from whom Robins Creek takes its name.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is of local historical significance as it is an intact example of a rural residence, garden and dairy typical of the area dating from the twentieth century. Dairying was an important activity in the development and history of the local area throughout the nineteenth and twentieth centuries.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with a person or persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item is of local aesthetic significance as an intact historical garden.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	The garden is of local representative significance as it is a good example of an early garden in the area, featuring a number of original ornamental plantings, including palm trees, conifers on either side of the front entrance, mature figs, pepper trees, and citrus plantings that were typical of those planted within the Dapto region.
Integrity	This item is in good condition and possesses a moderate degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	The garden only is listed on the Wollongong LEP 1990.
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IMPACT AND RECOMMENDATIONS

Impact	<p>A wastewater pipeline will run along the south west side of Darkes Road and onto the property. The house and garden is over 60m from the route of this pipeline and will not be impacted.</p> <p>The pipeline will run between a large galvanised iron shed and a timber building. These buildings do not appear in the 1949 aerial. It is presumed that some of these buildings may have to be removed for the construction the wastewater pipeline.</p>
Recommendations	<p>The house and garden do not require any mitigation work as no impact is predicted. The outbuildings relating to the dairying use of the property will be impacted. If practical the pipeline should be rerouted to the west to avoid these buildings but it is recognised that this may not be practical.</p> <p>If the outbuildings are to be demolished then they are of sufficient heritage significance to justify an archival recording be made of the building using the guidelines <i>How to prepare Archival Recording of Heritage Items</i> issued by the New South Wales Heritage Office in 1998. The requirements for items of local significance and for items involving Industrial Archaeological Evidence should be followed.</p>

Heritage Data Form

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	30		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	25/02/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Barlyn dairy buildings. View south east.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	Coral Vale Kitchen (32)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Smiths Lane						
Suburb/town	Wongawilli				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	294427		Northing	6182952
Owner	Unspecified						
Current use	Rural residential property						
Former Use	Rural residential property						
Statement of significance	<p>This item is of local historical significance as it is a good extant example of a nineteenth century kitchen structure associated with a homestead and is important in evidencing the development and history of the local area. This item is of some representative significance on a local level as it is likely the original "Coral Vale" cottage/homestead, and so provides a good extant example of an original nineteenth century residential homestead structure.</p>						
Level of Significance	State <input type="checkbox"/>				Local <input checked="" type="checkbox"/>		

DESCRIPTION									
Designer	NA								
Builder/ maker	NA								
Physical Description	<p>The original attached kitchen of "Coral Vale" homestead (Site #31) was relocated directly across the road in 1930 and was used as a residence, although it had been abandoned by the 2011 field survey. It is a timber weatherboard structure with a brick chimney, and has a corrugated iron roof, a skillion added to the west elevation, and a verandah on the east.</p>								
Physical condition and Archaeological potential	This item is in a poor to fair physical condition. Archaeological potential is moderate within the AECOM curtilage.								
Construction years	Start year				Finish year			Circa	<input type="checkbox"/>
Modifications and dates	The kitchen was relocated to this location from its original location directly across the road in 1930 (HLA 2006).								
Further comments	NA								

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HISTORY

Historical notes	Coral Vale Kitchen is situated on the original land grant of William Fry c. 1832. The property developed as a dairy farm and by the late 19th century had been expanded to include several lots totalling 200 acres. The Smith family acquired the property in 1900. Their son William occupied Lot 236, which comprised 50 acres, and was responsible for naming the property "Coral Vale". The Smith descendents' farmed the land until 1970. The property is now used for small mixed farming activities and as a horse agistment and stud. While the building has been identified as a kitchen, inspection by AECOM lead to the revision of this evaluation. The building is more likely to have been the original homestead, which was then used as a kitchen after the construction of a larger home. Following its use as a kitchen it was probably relocated across Smith's Lane for use, once again, as a residence.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is of local historical significance as it is a good extant example of a nineteenth century kitchen structure associated with a homestead and is important in evidencing the development and history of the local area.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item is of some representative significance on a local level as it provides a good extant example of the reuse of a building, probably being the original homestead, before being used as a kitchen structure and then relocated and converted into a nineteenth century residential structure.
Integrity	This item is maintained and in good physical condition. It retains a high degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	Wollongong LEP 1990
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IMPACT AND RECOMMENDATIONS

Impact	A wastewater pipeline is proposed to run down the creek valley immediately south of the buildings. The pipeline is proposed to commence about 15m to the south west of the building
Recommendations	As it seems unlikely the wastewater pipeline will impact on the site no management actions are proposed

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	32		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Coral Vale Kitchen , view west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Coral Vale Kitchen , view west. Pipeline is proposed to run in the vicinity of the two gum trees visible in the centre left of the image				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	Stockyard – Bong Bong Road (36a)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Bong Bong Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting			Northing	
Owner							
Current use	Stockyard						
Former Use	Stockyard						
Statement of significance	This item does not meet the threshold of significance.						
Level of Significance	State <input type="checkbox"/>			Local <input type="checkbox"/>			

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	<p>The Bong Bong Road Stockyard consists of a stockyard which now simply consists of an exterior fence line. There is some evidence of the former ramp, which appears to have been constructed of slag from the smelter. AECOM was informed that this site was to be removed within the coming weeks.</p>						
Physical condition and Archaeological potential	This item is in poor to fair condition and possesses limited archaeological potential.						
Construction years	Start year			Finish year			Circa <input type="checkbox"/>
Modifications and dates	NA						

Heritage Data Form

Further comments	
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HISTORY

Historical notes	There is no specific historical information currently available for this site.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	This item is in poor to fair condition and possesses low integrity.

HERITAGE LISTINGS

Heritage listing/s	This item is not listed on a heritage schedule.
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IMPACT AND RECOMMENDATIONS

Impact	Water pipeline is proposed to be constructed along Bong Bong Road; the stockyard is located on the property boundary.
Recommendations	AECOM ascribes no heritage significance to this stockyard, the fabric or the form of the stockyard meet does not the criteria for local significance. The item can be removed without impacting the historical record of the West Dapto region.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	36a		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

IMAGES - 1 per page

Heritage Data Form

Please supply images of each elevation, the interior and the setting.

Image caption	Stockyard, view west. Note tramway cutting in foreground				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS							
Name of Item	Stockyard – Bong Bong Road (36b) (AMBS – Timber Stock Ramp off Bong Bong Road)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Bong Bong Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	293966	Northing	6180452	
Owner	NA						
Current use	Stockyard – agricultural						
Former Use	Stockyard - agricultural						
Statement of significance	The Bong Bong Road Stockyard is of limited local historical significance, as it provides evidence of the dairy industry, which was an important industry in the development and history of the local area.						
Level of Significance	State <input type="checkbox"/>			Local <input type="checkbox"/>			

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	The Bong Bong Road Stockyard consists of a relatively intact loading ramp and a small holding yard constructed of bush timber and more recent dressed timber. The stockyard is located in an empty paddock close to the road alignment.						
Physical condition and Archaeological potential	The Bong Bong Road Stockyard is in a poor to fair condition, but possesses only limited archaeological potential.						
Construction years	Start year	Post 1949	Finish year			Circa	<input type="checkbox"/>
Modifications and dates	NA						
Further comments	Archivally recorded by AMHS for Stocklands – to be removed.						

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HISTORY

Historical notes	There is no specific historical information currently available for this site.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	The Bong Bong Road Stockyard is of limited local historical significance, as it provides evidence of the dairy industry, which was an important industry in the development and history of the local area.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	The integrity of this item could be classified as poor to fair.

HERITAGE LISTINGS

Heritage listing/s	NA
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IMPACT AND RECOMMENDATIONS

Impact	Water pipeline is proposed to be constructed along Bong Bong Road; the stockyard is located on the southern boundary adjacent to the railway cutting.
Recommendations	AECOM ascribes no heritage significance to this stockyard, the fabric or the form of the stockyard meet does not the criteria for local significance. The item can be removed without impacting the historical record of the West Dapto region.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	36b		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	22/02/2011

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

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Image caption	Stockyard – view north west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS							
Name of Item	House and Dairy (37)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Bong Bong Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	294080		Northing	6180456
Owner	Unspecified						
Current use	Residence						
Former Use	Residence and Dairy						
Statement of significance	This item is of local research significance in relation to the dairy buildings, including the layout, construction and evolution. The c.1900s house is also of interest and may have archaeological deposits associated with it.						
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>			

DESCRIPTION							
Designer	Unspecified						
Builder/ maker	Unspecified						
Physical Description	<p>The items are accessed via Bong Bong Road, next door to the Illawara Gun Club. The site comprises two houses, a windmill, mounted water tank, stockyard and remnant outbuildings associated with the operation of a former dairy.</p> <p>The main house is a c.1940s-1950s single storey brick and fibro structure. It has a hipped, corrugated iron, gabled roof. The windows are fixed and timber framed. It also has two brick chimneys. A small brick outhouse from the same period is located at the rear of the house. Several buildings survive to the west of the main house from their former use as a functioning dairy. These include five main intact buildings of mid-19th century origin. There is an intact timber milking shed with three unusually decorative arched access doors for cattle. A large corrugated iron shed retains a paved floor constructed of Illawarra Fire Bricks. A modified stockyard is situated to the east of the cottage. There are many mature trees also present, including large eucalypts, palms, coral trees and ornamental Moreton Bay Figs.</p>						
Physical condition and Archaeological potential	This item is in good condition and possesses good archaeological potential.						
Construction years	Start year				Finish year		
Modifications and dates	NA						
Further comments	A Water pipeline is proposed to be constructed along Bong Bong Road. The house and dairy are over 30m from						

Heritage Data Form

	the boundary and will not be impacted.
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HISTORY

Historical notes	There is no historical detail known about this site.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item is of local research significance in relation to the dairy buildings, including the layout, construction and evolution. The c.1900s house is also of interest and may have archaeological deposits associated with it.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	This item is in good condition and possesses a moderate to high level of integrity.

HERITAGE LISTINGS

Heritage listing/s	This item is not listed.
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IMPACT AND RECOMMENDATIONS

Impact	A Water pipeline is proposed to be constructed along Bong Bong Road. The house and dairy are over 30m from the boundary and will not be impacted.
Recommendations	No management is required.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	37		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	House – front elevation, view south				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Cottage associated with house and dairy – front elevation, view south				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Dairy - front elevation, view south east				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS						
Name of Item	Poultry Farm (38 &39)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	NA					
Street name	Hayes Lane					
Suburb/town	Dapto				Postcode	2530
Local Government Area/s	Wollongong					
Property description						
Location - Lat/long	Latitude				Longitude	
Location - AMG (if no street address)	Zone	56	Easting	Homestead: 293764 Outbuildings: 293833	Northing	Homestead: 6180748 Outbuildings: 6180866
Owner	Unspecified					
Current use						
Former Use	Poultry Farm					
Statement of significance	This item is of local research significance in relation to the poultry farm layout. The c.1920s house is also of interest and may have archaeological deposits associated with it.					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION						
Designer	Unspecified					
Builder/ maker	Unspecified					
Physical Description	<p>This item consists of an L shaped property including an original cottage, poultry sheds and modern residence (c.1980s). The poultry sheds are of corrugated iron. The original cottage (1920s) has four main rooms and has been constructed in three parts.</p> <p>The original c.1920s cottage is unpainted timber weatherboard elevated on brick stumps. It was relocated from a neighbouring property and once served as the local schoolmistress's house. It has a single brick chimney, hipped corrugated iron roof and sash windows. A small fibro lean-to and larger lean-to with aluminium windows have been added to the front and rear of the original house at a later stage (c.1950s-1960s). The cottage is enclosed by a small yard bounded by a fence of starpickets and chicken wire. Remnant farm machinery is also scattered across the property.</p> <p>Several buildings associated with the former poultry farm operation survive, including a section of laying sheds which were constructed c.1920s-1930s from corrugated iron. Two corrugated iron breeding sheds are also extant at the site. There were also previously a row of eight breeding sheds, each housing a rooster and having an attached yard and trees for shade. The sheds face north-west and are constructed from corrugated iron and feature iron awnings.</p>					
Physical condition and Archaeological potential	This item survives in quite good condition and possesses moderate to high archaeological potential.					
Construction years	Start year		Finish year		Circa	<input type="checkbox"/>
Modifications and	NA					

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dates	
Further comments	A Water pipeline is proposed to be constructed along Hayes Lane. The remains of the poultry sheds will not be impacted.

HISTORY

Historical notes	The property was established as a poultry farm in the 1920s. It was purchased by the Hayes family in 1927, who lent their name to the adjacent Lane.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item is of local research significance in relation to the poultry farm layout. The c.1920s house is also of interest and may have archaeological deposits associated with it.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	This item is in good condition and retains moderate to high integrity.

HERITAGE LISTINGS

Heritage listing/s	This item is not listed.
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IMPACT AND RECOMMENDATIONS

Impact	A Water pipeline is proposed to be constructed along Hayes Lane. The remains of the poultry sheds, house and large shed are 23.2 m from the boundary will not be impacted
Recommendations	Because of the heritage significance of the house and large shed, first management option is to avoid the impact by making sure the water pipeline is constructed closer to Hayes Lane. If this is not possible it is recommended that the house is archivally recorded prior to demolition and the archaeological potential of the pipeline is assessed.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	38 & 39		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		

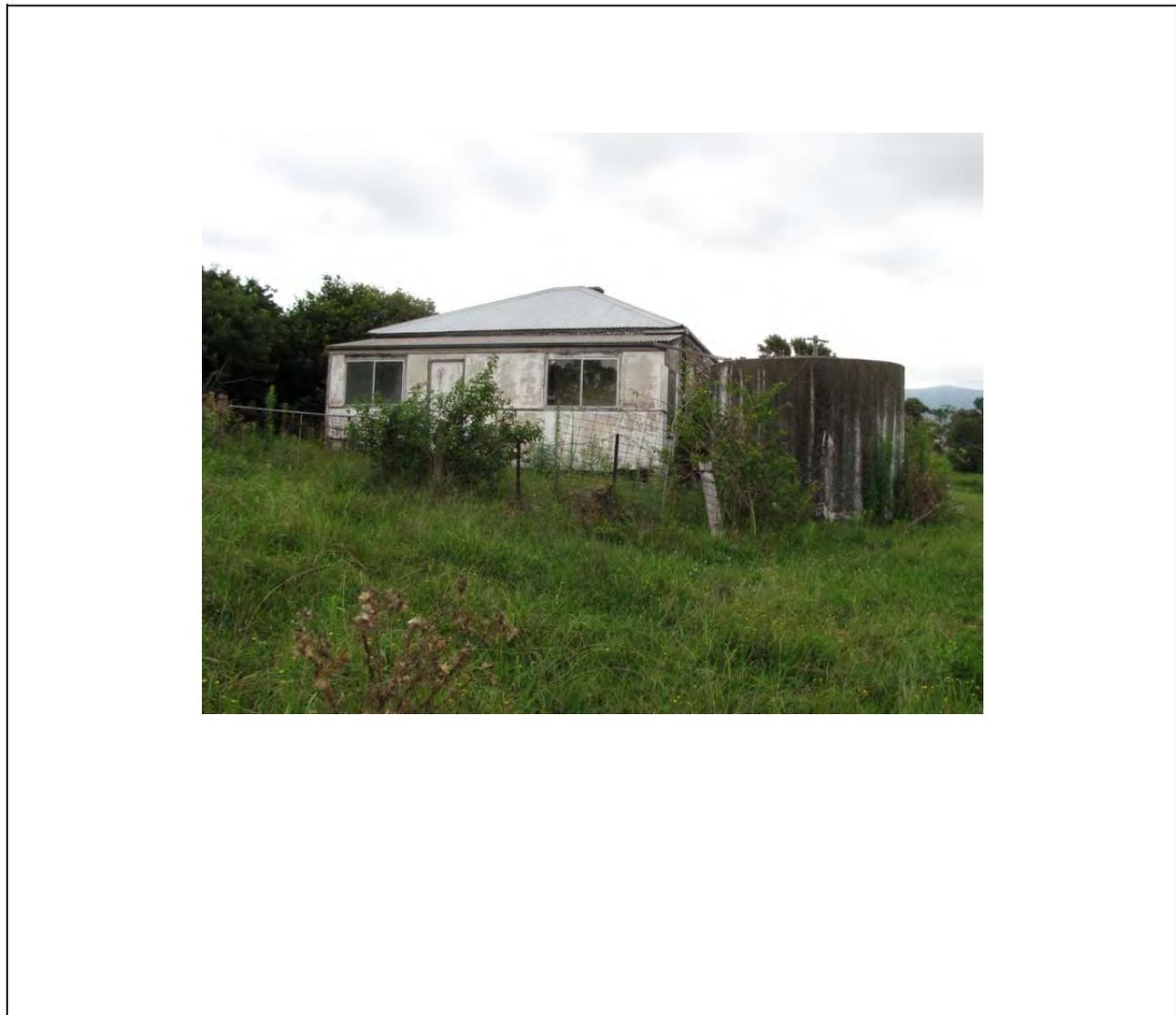
Heritage Data Form

NSW Heritage Manual guidelines used?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	21/02/2011

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Original cottage, front elevation, view north north west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Poultry sheds, view south south west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	House and Dairy (40)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Hayes Lane						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	293831		Northing	6180972
Owner	Unspecified						
Current use	Unspecified						
Former Use	Residence and dairy						
Statement of significance	While not entirely intact and in an overgrown state, this item is of local historical significance as it has a strong association with the dairying industry, which was an important industry in the development and history of the local area and region, and provides an example of a Victorian residential cottage in association with the dairy.						
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>			

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	<p>This site is accessible via the end of Hayes Lane and neighbours "Westerlies". It comprises an original cottage, stable foundations, a silo, and remnant outbuildings associated with the operation of a former dairy. Several buildings survive from their former use as a functioning dairy. Numerous small timber and corrugated iron sheds are used as garages and storage areas, although many have deteriorated and are in an unstable condition. A concrete platform is situated at the site of an earlier cottage. A metal stockyard and loading ramp is also evident along with a remnant bush timber telegraph pole. The main residence has been substantially modified, however the original concrete foundations, large sash windows and sandstone flagged flooring and garden edging indicates that the residence was built in the Victorian period (c.1890s). There are several mature trees present, including large eucalypts, coral trees, and ornamental Moreton Bay Figs.</p> <p>The site has not been maintained and has become overgrown with weeds and vegetation. In some areas the vegetation was nearly 1.2m tall, making it impossible to effectively survey and assess the site.</p>						
Physical condition and Archaeological potential	The site has not been maintained recently and is overgrown with dense vegetation. Upon visiting the site in February 2011 it was found that the vegetation was too tall and dense to effectively survey and assess the site.						
Construction years	Start year				Finish year		
Modifications and dates							
Further comments	NA						

Heritage Data Form

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HISTORY

Historical notes	There is no historical information currently available for this item.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is of local historical significance as it has a strong association with the dairying industry, which was an important industry in the development and history of the local area and region, and provides an example of a Victorian residential cottage in association with the dairy.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not provide a good demonstration of the principal characteristics of a class of state or local cultural places/environments.
Integrity	The integrity of this item could be classified as fair to moderate.

HERITAGE LISTINGS

Heritage listing/s	NA
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IMPACT AND RECOMMENDATIONS

Impact	A Water pipeline is proposed to be constructed along Hayes Lane and then runs north-east across the property to link with the water pipeline running down Jersey Farm Road. The pipeline route may be within 25m of the farm outbuildings
Recommendations	Because of the heritage significance of the site, first management option is to avoid the impact by varying the route of the water pipeline to avoid impact. If this is not possible recommend archival recording and archaeological monitoring during construction. Vibration impacts to the House are anticipated. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	40		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	22/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Approximate route of pipeline adjacent to house and dairy.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Modular silo imported from England associated with house and dairy.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	Cleveland Homestead and Outbuildings (47a)						
Other Name/s Former Name/s	Cleveland House						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Cleveland Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	295649		Northing	6179544
Owner							
Current use	Vacant						
Former Use							
Statement of significance	<p>This item is of some historical significance as it was a significant homestead and associated dairy in the history of the local area and was a good example of an early Georgian (1840s) style homestead. It also has the potential to reveal details regarding early lifeways in the Illawarra through the archaeological deposits associated with the Homestead. The significance of the item has been compromised in recent years as it has not been well maintained and has fallen into a state of extreme disrepair.</p>						
Level of Significance	State <input type="checkbox"/>				Local <input checked="" type="checkbox"/>		

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	<p>The Cleveland Homestead and Outbuildings site comprises the original homestead, two modern residences, and outbuildings associated with the former dairy. The early homestead was constructed in early Victorian Georgian style in the 1840s and is a rendered brick house with corrugated metal roof. It has 6-7 rooms. The brickwork is in Flemish bond and the bullnose verandah roof has a two-way curve. There are five pairs of French doors on the front elevation, however the front door and glass windowpanes are missing. A detached timber outhouse with a corrugated iron gabled roof is located on the western elevation. The homestead is enclosed by a remnant picket fence and is surrounded by overgrown lantana. A large Moreton Bay Fig and mature coral trees are adjacent to the homestead.</p> <p>The field inspection conducted in February 2011 revealed that the structure is not well maintained and is in a state of disrepair. The homestead is collapsing and is covered in lantana. A GPS line had to be taken across the front of curtilage as the vegetation was too dense to get all the way around. There is a partial avenue of trees (poplars?) on the road out between the creek and Cleveland Road. These trees are a part of the landscape and it is recommended that they are not impacted. To the north of the house are located 2 massive Moreton Bay Fig trees, and Byna Pines are also evident. A single line of Coral trees and an isolated palm tree occur along the southern side of Cleveland Road. It is advised that impacts to these trees are also avoided.</p>						
Physical condition and Archaeological potential	<p>Cleveland Homestead is in poor condition. It is not well maintained and has fallen into a state of disrepair. There is limited to no archaeological potential in the vicinity of the pipeline corridor, although the site itself possesses a moderate level of archaeological potential.</p>						
Construction years	Start year				Finish year		
					Circa	<input type="checkbox"/>	

Heritage Data Form

Modifications and dates	NA
Further comments	NA

HISTORY

Historical notes	"Cleveland" stands on the original 600 acre grant (Portion 59, Parish of Kembla) made in 1833 to George William Paul, a Sydney merchant who had disposed of his land even before the grant was issued. A series of subdivisions and conveyances followed in rapid succession. The property was sold in 1888, evidently in poor condition, to Maurice Madden, who lived there until its sale to W.D Dunster in 1912. Dunster resided at "Cleveland" until his death in 1977. The homestead is no longer occupied and has fallen into a state of severe disrepair.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	The Homestead is of local historical significance as an early homestead with a long occupation (c.1840s to 1977). It demonstrates the early occupation of the region and the subsequent development through the expansion and alteration of the homestead and the dairy outbuildings.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	The Homestead would be of aesthetic significance as a Georgian style 1840s homestead, however it is in such a state of disrepair that it currently does not meet the threshold.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	The Homestead is of local significance for its potential to reveal evidence regarding early lifeways in the Illawarra through the archaeological deposits associated with the Homestead and through the construction methods and the evolution of the Homestead.
Rarity SHR criteria (f)	This item does not meet this item as it is not rare.
Representativeness SHR criteria (g)	This item no longer meets this criterion as it no longer demonstrates the principal characteristics of a class of state or local cultural places/environments since it has fallen into a state of severe disrepair.
Integrity	This item is in very poor condition and retains only a low degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	Wollongong LEP 1990; Register of the National Estate; National Trust.
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IMPACT AND RECOMMENDATIONS

Impact	<p>A Water pipeline is proposed to run along Cleveland Road potentially impacting on the entrance drive to Cleveland. This area however has no heritage significance.</p> <p>A Wastewater pipeline is proposed to run on the northern side of the small creek and will cut through the entrance driveway to Cleveland. There are the remanet trees from the tree-lined driveway in this location and there is the potential for the construction work to impact on them.</p> <p>It should be easy to select a route through trees that avoids impact to the trees as they are widely spaced.</p> <p>Typically a tree protection zone of 3 metres around specific trees should be established to avoid compaction and mechanical injury during construction.</p>
Recommendations	It should be easy to select a route through trees that avoids impact on them as they are widely spaced. Typically a tree protection zone of 10 metres around specific trees should be established to avoid compaction and mechanical injury during construction. If this is not possible it is recommended a photographic archival recording is undertaken prior to the tree removal.

SOURCE OF THIS INFORMATION

Heritage Data Form

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	47a		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Cleveland House (47), front elevation. View south east.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Cleveland House (47), internal view of easternmost room showing state of disrepair. View south.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Cleveland House (47), view south along entrance driveway. The house is located in the central distance, behind the Moreton Bay Fig and Bunya Pines. Note partial avenue lining driveway. View south.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS						
Name of Item	Cottage, Dam and Hayshed					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	NA					
Street name	Avondale Road					
Suburb/town	Dapto				Postcode	2530
Local Government Area/s	Wollongong					
Property description						
Location - Lat/long	Latitude				Longitude	
Location - AMG (if no street address)	Zone	56	Easting	Cottage: 293365 Dam/Hayshed: 293328	Northing	Cottage: 6177763 Dam/Hayshed: 6177707
Owner	Unspecified					
Current use	Residence					
Former Use	Residence					
Statement of significance	The cottage is of local historical significance as it provides evidence of residential vernacular housing in the Dapto area dating from the early to mid twentieth century. The other items are of limited to no historical significance.					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION						
Designer	NA					
Builder/ maker	NA					
Physical Description	<p>The cottage is a single storey weatherboard building constructed c. 1930s in a simple vernacular design. The cottage is L shaped house and is elevated on brick stumps. It features a hipped corrugated iron roof and a simple brick chimney. The front elevation features a small enclosed porch supported by two brick columns and which have been filled in with brickwork. The entrance door is accessed by three concrete steps. The windows are single sash featuring corrugated iron projecting eaves. The rear of the cottage has two lean-to additions.</p> <p>A small dam adjacent to a Moreton Bay Fig is also present on the property. A large hayshed (c.1940s) is constructed from corrugated iron and has a gabled roof supported by bush timber stumps. An adjacent timber stockyard (c.1960s) appears to be a later addition and features section of steel fencing. A small iron shed with a flat roof is also within the property boundary.</p>					
Physical condition and Archaeological potential	These items are in fair to good physical condition. The cottage possesses moderate archaeological potential, however the other items are of limited archaeological potential.					
Construction years	Start year			Finish year		
Modifications and dates	NA					
Further comments	NA					

Heritage Data Form

HISTORY	
Historical notes	There is no specific historical information available pertaining to this item.

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	The cottage is of local historical significance as it provides evidence of residential vernacular housing in the Dapto area dating from the early to mid twentieth century.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural places/environments.
Integrity	The integrity of this item could be classified as moderate.

HERITAGE LISTINGS	
Heritage listing/s	NA

IMPACT AND RECOMMENDATIONS	
Impact	It is proposed that a Water pipeline will be constructed along South Avondale Road. It is proposed to construct a Wastewater pipeline east of South Avondale Road running roughly north east along an ephemeral creek valley.
Recommendations	<p>Vibration impacts to the Cottage and Hayshed are anticipated, dependant on the final alignment. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.</p> <p>Should construction require demolition of any of the structures, it is recommended the structures be archivally recorded and archaeological monitoring undertaken during construction.</p>

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	48 and 49		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Cottage, front elevation. View south east				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Garage associated with Cottage. View east				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Hayshed. View south east. Dam can be seen and green circle of vegetation to the left of image.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	"Avondale" Homestead and Garden						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Avondale Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	294088		Northing	6177974
Owner	Unspecified						
Current use	Rural Residence						
Former Use	Rural Residence						
Statement of significance	<p>Avondale is a well detailed and almost intact mid nineteenth century homestead which survives in its Victorian garden setting, and well demonstrates the tastes and lifestyle of a prosperous settler of the period. The presence of Colonial Georgian stylistic features in what is essentially a vernacular homestead gives it particular interest in demonstrating creative achievement and design ideas of the time. The property has historical associations with the Osborne's, a pioneering family of the Illawarra. It is one of few properties of such age and intactness to survive in the rural Illawarra. Statement from RNE listing.</p>						
Level of Significance	National <input checked="" type="checkbox"/>				State <input type="checkbox"/>		

DESCRIPTION							
Designer	Unspecified						
Builder/ maker	Unspecified						
Physical Description	<p>The "Avondale" homestead and gardens site comprises a main homestead, garden and outbuildings. The house was constructed in 1854 in a symmetrical single storey brick design with a stucco and ashlar finish. The foundations and windows are of stone and there are two simple, rendered chimneys. The roof is hipped with slate tiles and corrugated iron over the verandas on three sides. Several farm outbuildings are present, including garages and sheds from various periods. The original garden has been substantially altered; however several original mature Moreton Bay Figs remain. Early vegetation present on the property also includes two Chinese Elms, Eucalypts and Pines.</p> <p>Farm dams are located within the property boundary, as well as a tennis court to the east of the homestead and a dog burial and memorial in the south west corner of the property. The driveway from Avondale Road is not original; installed by the Webb family the driveway has since been altered by the Anderson family to include a larger turning circle.</p>						
Physical condition and Archaeological potential	This item is in excellent physical condition and possesses moderate to high archaeological potential.						
Construction years	Start year	1854	Finish year			Circa	<input type="checkbox"/>
Modifications and dates	Unspecified						
Further comments	NA						

Heritage Data Form

HISTORY	
Historical notes	"Avondale" lies within part of the original Portion 14 granted to Alfred Elyard in 1834, based on a promised grant by Governor Brisbane in 1825. George Brown acquired the land before selling it to Henry Hill Osborne in 1839. The existing homestead was built in 1854 when the property comprised a 600 acre lot. The property was subdivided during the Depression of 1893 by executors of the Estate of Henry Hill Osborne. The Cooper family bought the land on which the homestead is located and occupied it until it was purchased by P.J.G Webb in 1918. Webb extended the property to 242 acres, which were bought in three lots.

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	Avondale is of local historical significance as it demonstrates the pattern of settlement in the Illawarra.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of local, state, or national significance.
Aesthetic significance SHR criteria (c)	This item is aesthetically significant because it demonstrates the aesthetic characteristics of a nineteenth century homestead and property.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item is of local research significance as the homestead has the potential to have archaeological deposits associated with it that may provide an insight into early life in the Illawarra.
Rarity SHR criteria (f)	This item is of local rarity significance, being a rare surviving homestead of such extent from the 1850s.
Representativeness SHR criteria (g)	This item is of local significance as an excellent representative example of a 1850s homestead and gardens. The homestead and gardens are in good condition and display all the characteristics of the class.
Integrity	This item is in excellent condition and retains a high level of integrity.

HERITAGE LISTINGS	
Heritage listing/s	Register of the National Estate; National Trust Register; 1990 Wollongong LEP.1

IMPACT AND RECOMMENDATIONS	
Impact	It is proposed to construct a Water pipeline running on an east west axis through the main building (probably just south of the main building) which will cause a major impact on the building and surrounding gardens) which is unacceptable given the heritage significance of Avondale.
Recommendations	Vibration impacts to the Cottage and Hayshed are anticipated, dependant on the final alignment. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986. Should construction require demolition of any of the structures, it is recommended the structures be archivally recorded and archaeological monitoring undertaken during construction.

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	50		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

IMAGES - 1 per page

Heritage Data Form

Please supply images of each elevation, the interior and the setting.

Image caption	Avondale, front elevation. View south west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS

Name of Item	Mooreland (55)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	384						
Street name	Avondale Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	293358	Northing	6178446	
Owner	Unspecified						
Current use	Residential						
Former Use	Residential						
Statement of significance	This item is historically significant on a local level as it is a good example of a late Victorian vernacular timber building and is a significant homestead in the history of the local area.						
Level of Significance	State <input type="checkbox"/>				Local <input checked="" type="checkbox"/>		

DESCRIPTION

Designer	NA						
Builder/ maker	NA						
Physical Description	The homestead is a late Victorian vernacular timber building, with a grey iron roof and bull nose verandahs on three sides, one side enclosed. Wrought iron lattice inserts feature on each verandah cornice. Gravel driveway is accessed from Avondale Road and retains its original configuration. The homestead has a small cottage garden surrounded by galvanised pipe and wire mesh fence. A prominent mature fig features at the rear of the homestead. Some original Eucalypts remain scattered in the neighbouring paddocks. The boundary fence consists of post and wire. Several original and modern dairy outbuildings are located to the rear and sides of the homestead.						
Physical condition and Archaeological potential	This item is in good physical condition and possesses a moderate level of archaeological potential.						
Construction years	Start year				Finish year	Circa <input type="checkbox"/>	
Modifications and dates	NA						
Further comments	This item may potentially be impacted by the proposed works. AECOM did not enter this property at the request of the owner and Sydney Water.						

HISTORY

Heritage Data Form

Historical notes	The site is originally part of Alfred Elyard's 600 acre estate "Avondale", granted in 1834. In 1893 Henry Osborne purchased the property and the Avondale estate was subdivided into lots the same year. The land sale map from 1893 indicates that a building was standing on the block (Lot 6) where the present homestead is situated. Most likely a small tenant farmer's hut, this structure collapsed and the existing "Mooreland" homestead was built in front of it.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is historically significant on a local level as it is a significant homestead in the history of the local area.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	Retains a high level of integrity.

HERITAGE LISTINGS

Heritage listing/s	Wollongong LEP 1990
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IMPACT AND RECOMMENDATIONS

Impact	It is proposed that a Water pipeline will be constructed along Avondale Road and north along the eastern boundary of the property. There are a series of outbuildings at the north east corner of the site that may be impacted by construction. The construction along Avondale road will have no impact as the buildings are more than 25m from the boundary
Recommendations	Inspection of the site is recommended in order to assess impacts.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	55		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Moorland, view north west
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Heritage Data Form

Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM
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Heritage Data Form

ITEM DETAILS							
Name of Item	Fence – Corner (56)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Corner of Avondale and Cedar Avenue						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description	North-west corner of South Avondale and Cedar Avenue.						
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	293242	Northing	6177409	
Owner	Unspecified						
Current use	Fence						
Former Use	Fence						
Statement of significance	This item is of some local historical representative significance as it is a remnant example of a former post and rail style fencing common throughout district.						
Level of Significance	State <input type="checkbox"/>			Local <input type="checkbox"/>			

DESCRIPTION									
Designer	NA								
Builder/ maker	NA								
Physical Description	The item consists of a thick corner strainer with metal cap, supported by an angled treated pine post. There is a single post with 2 rails in each direction. It is a small section of early post and rail fencing remaining from a previous extensive property boundary.								
Physical condition and Archaeological potential	The item is in poor to fair physical condition and is of limited archaeological potential.								
Construction years	Start year				Finish year			Circa	<input type="checkbox"/>
Modifications and dates	NA								
Further comments	The item is not on the corner of Cleveland Road as stated by HLA. Item within the Project Approval Area.								

HISTORY	
Historical notes	There is no historical information currently available for this item.

Heritage Data Form

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item is of some representative significance as it is a remnant example of a former post and rail style fencing common throughout district.
Integrity	This item retains a moderate level of integrity.

HERITAGE LISTINGS	
Heritage listing/s	NA

IMPACT AND RECOMMENDATIONS	
Impact	It is proposed that a Water pipeline will be constructed along South Avondale Road
Recommendations	The site is not of historical significance and does not require heritage management

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	56		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Fence corner				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	Stockyard – Huntley Road (59)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Huntley Road, opposite Penrose Drive						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	295968		Northing	6178175
Owner	Unknown						
Current use	Derelict Stockyard on property						
Former Use	Stockyard						
Statement of significance	This item does not meet the threshold for local significance.						
Level of Significance	State <input type="checkbox"/>				Local <input checked="" type="checkbox"/>		

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	HLA recorded a stockyard in this location as being constructed of bush timbers. During the AECOM field survey such an item could not be located, however a modern stockyard was at the same location. This site has been removed and replaced by a treated pine and metal stockyard. The current stockyard does not hold historical significance.						
Physical condition and Archaeological potential							
Construction years	Start year			Finish year			Circa <input type="checkbox"/>
Modifications and dates	NA						

Heritage Data Form

Further comments	The Huntley Road Stockyard is located within 25m of the road easement.

HISTORY

Historical notes	There is no specific information regarding the stockyard at the this time.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item not of historical significance as it does not demonstrate the local pattern of history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion because it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it has lost the principle characteristics of the class.
Integrity	The integrity of this item could be classified as fair/moderate.

HERITAGE LISTINGS

Heritage listing/s	NA
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IMPACT AND RECOMMENDATIONS

Impact	No impact on stockyard is anticipated as it is set back further than 25 m from the boundary fence.
Recommendations	The site is not of historical significance and does not require heritage management

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	59		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Stockyard, view south south west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	"Marshall Mount" Homestead, Garden, and Outbuildings (64)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Marshall Mount Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	292825		Northing	6174728
Owner	Unspecified						
Current use	Private residential						
Former Use	Private residential						
Statement of significance	"Marshall Mount" homestead, garden, and associated outbuildings is of national historical significance as it is a unique example of a Colonial style rural homestead with associated farm outbuildings and garden which has retained a high level of integrity.						
Level of Significance	National <input checked="" type="checkbox"/>				State <input type="checkbox"/>		

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	<p>"Marshall Mount" is a colonial style homestead which was constructed in two parts of rendered brickwork and weatherboard. The single storey was built c.1838; and the two-storey adjoining wing was subsequently erected in the 1840s and features a hall and cedar staircase. Other internal features of note include two imported Italian marble mantle pieces. The front elevation features French windows leading onto a stone paved verandah. This verandah has been replaced with modern tiles, however, the original sandstone pavers have been retained at the base of the entrance steps. The roof comprises grey tiles, which replace the original slate. A covered well is sited on the eastern elevation. A brick rendered barn is sited on the eastern elevation of the homestead and was constructed from bricks made on the property. The barn is rectangular with gable ends built by convict labour. The roof is timber framed and lined with corrugated iron sheeting. The building currently stores movable heritage items. Small sheds are 20th century inclusions. The garden retains its original setting, with a circular driveway, raised garden beds, and several ornamental Moreton Bay figs. There is remnant sandstone garden edging at the rear of the homestead. Significant views from the property have also been retained.</p> <p>There is a distance of 50m between the boundary and the homestead, and a steep road cutting forms a good curtilage along the road edge.</p>						
Physical condition and Archaeological potential	This item is in very good physical condition and possesses good archaeological potential.						
Construction years	Start year	1838	Finish year			Circa	<input checked="" type="checkbox"/>
Modifications and dates	Two storey adjoining wing added to original single storey structure in the c.1840s.						
Further comments	NA						

Heritage Data Form

HISTORY

Historical notes	In 1829 Irish immigrants Sarah and Henry Osborne were granted 2560 acres named "Marshall Mount" after Sarah's maiden name. The Osbornes first resided in a modest house called "Pumpkin Cottage" but later recruited labour to establish "Marshall Mount House". By the 1840s, Osborne had acquired Throsby's "Calderwood", Elyard's "Avondale", William Brown's "Athanlin", Brook's "Exmouth", and numerous other smaller grants within the immediate region, increasing his land holdings to 5000 acres. Osborne died in 1859. His estates were divided amongst his family. In 1822 the estate was subdivided into 22 small farms.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is of national significance as it is a unique example of a Colonial style rural homestead with associated farm outbuildings and garden in the region which has retained a high level of integrity.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item is of national aesthetic significance as it is an excellent example of a Colonial style rural homestead with associated farm outbuildings and garden which retains a high degree of integrity.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item is of national significance as it is a unique example of a Colonial style rural homestead with associated farm outbuildings and garden in the region which has retained a high level of integrity.
Representativeness SHR criteria (g)	This item is of national representative significance because it is a unique example of a Colonial style rural homestead with associated farm outbuildings and garden in the region which has retained a high level of integrity.
Integrity	This item is in excellent condition and retains a high degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	Register of the National Estate; National Trust Register; Wollongong LEP 1990.
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IMPACT AND RECOMMENDATIONS

Impact	Water pipeline is planned to be constructed along Marshal Mount Road. If constructed along the south-east side of Marshal Mount Road there is the possibility of direct construction impacts on the gardens and one outbuilding.
Recommendations	Given the heritage significance of the buildings and gardens at "Marshall Mount" Homestead, Garden and Outbuildings, it is strongly recommended that the water pipeline be rerouted to avoid impact on these items. No direct impacts to the Homestead or Outbuildings are acceptable. It is recommended that impacts to the Garden be avoided, however, this may be difficult to achieve given the terrain at this location. It is also difficult to see how constructing a pipeline through the garden could be achieved without significant damage to the gardens. If it is necessary to put the pipeline through the garden it is recommended an arborist be consulted regarding the best way to proceed. Vibration impacts to Marshall Mount House and Outbuildings is anticipated, dependant on the final alignment. The impacts will be managed in accordance with the German Standard DIN 4150: Part 3 - 1986.

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	64		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Marshall Mount House front elevation. View east				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Marshall Mount House from road. View south south east				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS

Name of Item	Kembla Grange War Cemetery (76)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	NA					
Street name	Reddalls Road					
Suburb/town	Dapto			Postcode	2526	
Local Government Area/s	Wollongong					
Property description						
Location - Lat/long	Latitude				Longitude	
Location - AMG (if no street address)	Zone	56	Easting	298382	Northing	6183683
Owner	NA					
Current use	Cemetery					
Former Use	Cemetery					
Statement of significance	Kembla Grange War Cemetery is historically significant as it marks an important phase and events in the history of the local community, and is also socially significant due to its strong and special association with the local communities of Dapto and Kembla Grange.					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION

Designer	NA					
Builder/ maker	NA					
Physical Description	The Kembla Grange War Cemetery occupies a square of land located on a right angle in Reddalls Road. It consists of twelve engraved, white marble headstones set out in two rows and positioned at the rear of the fenced area. There are eight graves present in the back row, and four in the front. The graves are oriented east – west, and face west. The remainder of the area is grassed and landscaped, and a concrete path extends from the front access gate to a central platform, which is most likely used for commemoration ceremonies. A small garden surrounds the site boundary and the southern border of the property is lined with hibiscus. There are eleven army and one navy grave present.					
Physical condition and Archaeological potential	The Kembla Grange War Cemetery is in an excellent condition and is well maintained. It has good archaeological potential.					
Construction years	Start year		Finish year		Circa	<input type="checkbox"/>
Modifications and dates						

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Further comments	The Kembla Grange War Cemetery is situated within 25m of the road easement.

HISTORY

Historical notes	<p>The land for the Kembla Grange Cemetery was Reserved from Sale and gazetted as a cemetery (R37438) on 26th March 1904.</p> <p>The Cemetery was extended to the north on the 26th November 1954 (including the Kembla War Cemetery).</p> <p>In 1968 the existing alignment of Reddalls Road was altered to allow Tubemakers Australia to expand to occupy part of the cemetery. The land was resumed and a new road reserved on the 5th July 1968. Sometime after this date the land between the War Cemetery and what is now known as the Kembla Settler's Cemetery was also decommissioned as cemetery land. It is now operated as a manufacturing plant for Socotherm Pty Ltd, who coat pipes. The two cemeteries are therefore no longer linked. The old road alignment was closed on the 6th September 1968.</p> <p>The graves mark the resting place of eleven members of the Royal Australian Army, and one Royal Australian Navy personnel from the local community. The site includes four members of the Royal Australian Army who were killed in battle in 1943. The cemetery was originally part of the much larger</p>
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item is historically significant as it marks an important phase and event in the history of the local community, giving an indication of the impact of WWII on the local area.
Historical association significance SHR criteria (b)	There is currently insufficient information regarding the individuals interred in the cemetery to determine whether the site meets this criterion.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item is of social significance due to its strong and special association with the local communities of Dapto and Kembla Grange as a place of internment for service personnel killed during WWII.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	This item is in excellent condition and possesses a high level of integrity.

HERITAGE LISTINGS

Heritage listing/s	Wollongong LEP 1990
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IMPACT AND RECOMMENDATIONS

Impact	<p>A water pipeline is identified as being constructed along Reddalls Road.</p> <p>The entire cemetery is within 25m of the boundary of Reddalls Road.</p> <p>The major concern is whether construction on either side of the road will impact on known or unknown burials. In the case of the Kembla Grange War Cemetery it seems unlikely that there are any other graves apart from the 12 clearly marked. This is because the cemetery is a specific purpose cemetery which has been well maintained.</p>
Recommendations	Because of the heritage significance of the site, first management option is to avoid the impact by rerouting the water pipeline, although it is recognised that this may not be possible. It should be possible to avoid the graves

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	<p>themselves which are located some 14m in from the boundary fence.</p> <p>If rerouting is not an option then it is recommended that Sydney Water should undertake a program of specific community consultation with the Returned Services League and descendants of those buried in the Kembla Grange War Cemetery (if possible) in order that the community has the opportunity to understand the proposed works and comment on them to ensure that the War Cemetery is treated with appropriate respect.</p> <p>Management of the existing graves monuments during construction would require the following works:</p> <ul style="list-style-type: none"> • The location of the graves and other features be marked on all plans of the work in this area as items of heritage significance so as to avoid inadvertent disturbance. • Site facilities such as toilets and work sheds be placed to avoid disturbance to graves and to avoid offence (e.g. toilets within the cemetery) • Temporary fencing of the graves by a parra-webbing fence running parallel to Reddalls Road in this section to avoid accidental damage by machinery • All contractors and sub-contractors and Sydney Water staff should be briefed on the respectful treatment of human remains and grave sites • Provisions for briefing of personnel and for the mitigation works outlined above should be incorporated in any environmental or construction planning for the project such as Environmental Management Plans. 		
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SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	76		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard and Iain Stuart		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	22/02/2011

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Kembla Grange War Cemetery, view east				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM

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ITEM DETAILS						
Name of Item	Illawarra Harbour and Land Corporation Railway/Tramway (171)					
Other Name/s Former Name/s	NA					
Area, Group, or Collection Name	NA					
Street number	NA					
Street name	NA					
Suburb/town	NA				Postcode	
Local Government Area/s						
Property description	The tramway runs from immediately west of the end of Sheafs Road south to Bong Bong road, where it then curves to the west and runs along the southern boundary of Portion 56 until it reaches Dapto.					
Location - Lat/long	Latitude				Longitude	
Location - AMG (if no street address)	Zone	56	Easting			Northing
Owner	Illawarra Harbour and Land Corporation					
Current use	Disused					
Former Use	Railway/Tramway					
Statement of significance	The Illawarra Harbour and Land Corporation Railway is of local historical significance as physical evidence of the expansion of the region's economy into coal mining and smelting.					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION						
Designer						
Builder/ maker						
Physical Description	The Tramway is disused and its condition and visibility in the landscape varies across its length. The line is still evident from Bong Bong Road, near its curve to the west, where the Road has been built across a former cutting. The Tramway curves to south south east before running almost due east until it intersects with the Princes Highway. At the Bong Bong Road end the Tramway is visible as a cutting. At the point where the line turns eastwards the Tramway is on an embankment of variable height to raise it above the swampy ground. Towards the eastern end the embankment becomes less visible. During field survey Wollongong Council were undertaking works ahead of a subdivision and had cut through the embankment. There was no stratigraphic evidence of the construction of the embankment.					
Physical condition and Archaeological potential	The physical condition of this item is variable along its length. It possesses moderate archaeological potential.					
Construction years	Start year		Finish year		Circa	<input type="checkbox"/>
Modifications and dates	NA					
Further comments	Proposed Wastewater pipelines cut through the embankment in two places and along an 800m section of the alignment. A proposed Water pipeline also cuts through the alignment.					

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HISTORY	
Historical notes	<p>The Illawarra Harbour and Land Corporation (IHLC) was formed around 1890 to dredge a channel through Lake Illawarra to make it navigable and to construct a harbour and port facilities near Tallawarra Point. A standard gauge railway was to link the Port with the Ocean Seam Colliery located on the escarpment about "half a mile west of the old West Dapto Public School site" and north of Wongawilli Colliery. The line crossed the south coast line of the NSW GR at Dapto.</p> <p>Work was difficult and probably undercapitalised and by 1895 dredging at the opening ground to a halt. There the scheme would have languished were it not for the development of the Dapto Smelter by the Australian Smelting Company. This project rejuvenated work on the port and railway and construction of the line commenced in 1895 and was completed by 1896 with a spur line running to the Dapto Smelter.</p> <p>The Dapto Smelter used coal from the Ocean Seam Coal mine and coke from nearby suppliers. It is not clear when the IHLC closed but Reynolds noted that the decision of the NSW Government in 1898 to develop Port Kembla as the Illawarra's port would have put an end to plans for Lake Illawarra (2001:18). The crossing over the South coast line was removed in 1902.</p> <p>The IHLC was one of a number of speculative ventures along the Illawarra Coast that attempted to construct shipping facilities for coal. For example there was a similar venture at Bellambi. These all suffered the problems of the Illawarra's tricky geography steep slopes from the exposed coal seams, swampy flats and rugged coastline made the task of transporting coal very difficult. Although Lake Illawarra was not a rugged coastline it was shallow and prone to silting making its use for large ships difficult.</p> <p>The tramway itself was one of sixteen major tramways or railway lines in the Illawarra transporting coal to ports or jetties (Eardley 1968:05)¹. Typically these were railways built to mainline standards and were standard gauge. They ran from the bottom of the escarpment (where they met with smaller tramways taking coal down the steep escarpment slopes from the mines) to the jetties or ports. Some delivered coal to coke works developing on the flats.</p>

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	The Railway is of local historical significance as it demonstrates the economic development of the region and the diversification into coal and smelting.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	The condition and integrity of the Tramway is variable along its length.

HERITAGE LISTINGS	
Heritage listing/s	The Tramway is listed on the 1990 Wollongong LEP.

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IMPACT AND RECOMMENDATIONS	
Impact	<p>Proposed wastewater pipelines cut through the embankment in two places and will follow the tramway along an 800 m section of the alignment. A proposed water pipeline also cuts through the alignment.</p> <p>The pipelines cutting the tramway are unlikely to have a significant impact on the item as large portions will remain intact. If the 800 m is to be on top of the tramway route, which is still evident in the landscape at this point, the construction of the pipeline will remove a significant portion of the tramway, impact on the visibility of the route in the landscape and remove the physical evidence of construction techniques.</p>
Recommendations	<p>Depending on the route it is recommended that the impact on all archaeological remains of the IHLC railway be managed as a single project to avoid unnecessary duplication. While the structure of the embankment would be considered a work it is possible that relics are contained within the embankment.</p> <p>It is recommended that the following work be undertaken:</p> <ul style="list-style-type: none"> • A research design be developed to determine if information that cannot be gleaned from other sources could be gained through an archaeological examination of the embankment • Development of appropriate mitigation options (likely to be either test excavation prior to construction, archaeological monitoring during construction or no further archaeological work) <p>Development of appropriate mitigation options (likely to be either test excavation prior to construction, archaeological monitoring during construction or no further archaeological work).</p>

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	171		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Tramway cutting, view south from Bong Bong Road				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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Please supply images of each elevation, the interior and the setting.

Image caption	Tramway embankment, south east of Bong Bong Road. View west.				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS							
Name of Item	Yallah Brush (180)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Yallah Road						
Suburb/town	Yallah				Postcode	2530	
Local Government Area/s							
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting			Northing	
Owner	NA						
Current use	Remnant bushland						
Former Use	Bushland						
Statement of significance	Yallah Brush is of local aesthetic significance as an area of remnant vegetation.						
Level of Significance	State <input type="checkbox"/>				Local <input checked="" type="checkbox"/>		

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	Yallah Brush is located on the corner of Marshall Mount and Yallah Roads. It is an area of lightly wooded grass paddocks. As far as could be ascertained during the field survey, there were no structures within the curtilage of heritage significance.						
Physical condition and Archaeological potential	This item is in good physical condition. It possesses limited archaeological potential.						
Construction years	Start year		Finish year		Circa	<input type="checkbox"/>	
Modifications and dates	NA						

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Further comments	It is proposed to construct a Water pipeline along through the curtilage of the Bush. There is the possibility of construction impacts occurring to this heritage item.
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HISTORY

Historical notes	A search of Land Titles information and early maps and plans indicates that the area seems to have been left over after the sale of the surrounding land. There is no indication of development or use of the land.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	Yallah Brush is of local aesthetic significance as an area of remnant vegetation.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to an understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principal characteristics of a class of state or local cultural or natural places/environments.
Integrity	This item is in good condition and retains a moderate to high level of integrity.

HERITAGE LISTINGS

Heritage listing/s	Yallah Brush is listed on the 1990 Wollongong LEP.
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RECOMMENDATIONS

Recommendations	The Bush is likely to be listed for its natural/environmental significance as a piece of remnant vegetation. Disturbing the ecosystem will therefore impact on the significance of the item. It is recommended that the pipeline be rerouted. If this is not practicable it is recommended that an ecologist assesses the pipeline route and provides mitigation/off-set recommendations.
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SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	180		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

IMAGES - 1 per page

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Please supply images of each elevation, the interior and the setting.

Image caption	Yallah Brush, as viewed from the corner of Marshall Mount and Yallah Roads. View south east				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



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ITEM DETAILS							
Name of Item	West Dapto Road – New Sites (182-185)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	West Dapto Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s	Wollongong						
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	n/a		Northing	n/a
Owner	Variable						
Current use	Residential						
Former Use	Residential						
Statement of significance	The potential archaeological sites 1-5 are of local significance for their potential to inform regarding the construction, operation and subsequent abandonment of these forgotten structures.						
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>			

DESCRIPTION	
Designer	Unspecified
Builder/ maker	Unspecified
Physical Description	<p>There are a number of new sites located which have been dealt with as a group.</p> <p>In the course of resolving the issues about the Kembla Grange cemetery it was observed that the 2nd edition of the Parish map for Kembla had identified buildings along West Dapto Road. The 2nd edition of the Parish of Kembla map was compiled in early 1889 and the map was in use from 1889 till August 1891. As the details are lithographed on the base map they must date to early 1889. The plan shows an "Old Store", "Public House" and "Cottage" in the vicinity of West Dapto Road</p> <p>The 1927 Inch to Mile plan shows building in these locations but is not of sufficient resolution to be definitive. The 1951 Aerial was searched and clearly showed a farm in the area of "J Barrents Farm" with buildings located near the road. (See figure below)</p> <p>There is no evidence of any of these buildings on the ground or visible from current aerial images.</p> <p>New Site 1 Potential Remains of Store (182)</p> <p>This is the approximate location of a building labelled "Old Store" on the 1889 Parish Plan located on the northern side of West Dapto Road. Based on the overlay of maps and plans it is likely that some remains of the store, if they exist, would be within the 25m zone.</p> <p>There is no evidence of a building visible on the three high resolution images available on Nearmap. However, a</p>

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	<p>circular mark is faintly visible on the images which suggests the possibility of a filled well.</p> <p>Remains from a store might include structural remains such as building footings and post holes as well as filled cellars and wells. It is possible that deposits of artefacts would be located in the area.</p> <p>New Site 2 Potential Remains of Public House (183)</p> <p>This is the approximate location of two buildings labelled "Public House" on the 1889 Parish Plan located on the southern side of West Dapto Road. Based on the overlay of maps and plans it is likely that some remains of the Public House if they exist would be within the 25m zone.</p> <p>The overlay places the potential location of the Public House immediately to the east of Site 17. There was no evidence of a building in this location when Site 17 was inspected on the 18th February 2011 although the field was heavily grassed. There is no evidence of a building visible on the three high resolution images available on Nearmap.</p> <p>Remains from a Public House might include structural remains such as building footings and post holes as well as filled cellars and wells. It is possible that deposits of artefacts would be located in the area.</p> <p>New Site 3 Potential Remains of J Barretts Farm (184)</p> <p>This is the approximate location of two buildings labelled "J Barretts" on the 1889 Parish Plan located on the southern side of West Dapto Road (Barrett was the original grantee of the portion). The 1951 aerial images show that this area was occupied by a farm with extensive outbuildings. Based on the overlay of maps and plans it is likely that some remains of the farm if they exist would be within the 25m zone. The 1951 Aerial image shows two buildings close to the road one 8m and the other 10m from the road.</p> <p>There is no evidence of buildings visible on the three high resolution images available on Nearmap; however the predicted location of many of the farm buildings is covered by a suspicious number of bushes possibly indicating the site of some buildings.</p> <p>Remains from a farm might include structural remains such as building footings and post holes as well as filled cellars and wells. It is possible that deposits of artefacts would be located in the area. More recent buildings constructed on stumps may leave less of an archaeological imprint than earlier buildings constructed with walls on sub-surface footings.</p> <p>New Site 4 Potential Remains of Cottage (185)</p> <p>This is the approximate location of two buildings labelled "Cottage" on the 1889 Parish Plan located on the southern side of West Dapto Road near Dapto Creek. Based on the overlay of maps and plans it is likely that some remains of the Cottage, if they exist, would be within the 25m zone.</p> <p>The overlay places the potential location of the Cottage immediately to the east of the large fig tree recorded by AMBS. There was no evidence of a building in this location when the site was inspected on the 18th February 2011 although the field was heavily vegetated. There is no evidence of a building visible on the three high resolution images available on Nearmap although all that was visible was the tops of the trees.</p> <p>New Site 5 Potential Remains of Cottage (186)</p> <p>A house and associated outbuildings is shown at this location on the 1951 aerial image (Figure 16). The buildings have since been demolished. However the impression of the remains of a structure is visible on the Nearmap aerial images. These are 23m from the boundary and so are marginally within the potential location for the water pipeline.</p> <p>Remains from a cottage might include structural remains such as building footings and post holes as well as filled cellars and wells. It is possible that deposits of artefacts would be located in the area.</p> <p>A house and associated outbuildings is shown at this location on the 1951 aerial image. The buildings have since been demolished. However the impression of the remains of a structure is visible on the Nearmap aerial images. These are 23 m from the boundary and so are marginally within the potential location for the water pipeline.</p> <p>Remains from a house might include structural remains such as building footings and post holes as well as filled cellars and wells. It is possible that deposits of artefacts would be located in the area.</p>
Physical condition and	These items are in relatively good condition, They possess moderate archaeological potential.

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Archaeological potential						
Construction years	Start year		Finish year		Circa	<input type="checkbox"/>
Modifications and dates	NA					
Further comments	NA					

HISTORY

Historical notes	There is no specific historical information known about these sites.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	There is currently insufficient information to determine the significance of these potential sites under this criterion.
Historical association significance SHR criteria (b)	These items does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	The potential archaeological sites, of a group of structures about which little is known, is of local research potential for its potential to reveal details regarding the construction, operation and subsequent abandonment of these forgotten structures.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it no longer represents its class.
Integrity	These items could be classified as possessing a moderate to high degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	These items are not listed on any heritage schedules.
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RECOMMENDATIONS

Impact	Water pipeline and Wastewater pipe are proposed to be constructed along West Dapto Road, which may impact on New Archaeological Sites 1-5.
Recommendations	<p>It is recommended that the area be avoided and the pipelines located within the road reserve. If this is not practicable the following management is recommended:</p> <ul style="list-style-type: none"> • Develop a clearer understanding of the archaeological potential of the site by undertaking the following: <ul style="list-style-type: none"> ○ Vegetation removal to allow for a more detailed visual inspection ○ A remote sensing survey along the route to identify the possibility of sub-surface remains of the buildings being located during construction ○ Development of appropriate management options (likely to be either test excavation prior to construction, archaeological monitoring during construction or no further archaeological work).

SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	182-185		
Author of study or report	Susan Lampard		

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Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

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IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	1951 aerial for a section of West Dapto Road. Department of Lands.				
Image year	1951	Image by		Image copyright holder	Department of Lands.



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ITEM DETAILS							
Name of Item	New Site 6 – Archaeological Potential Daly's Hut and Yards (187)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Hayes Lane near intersection with Bong Bong Road						
Suburb/town	Dapto			Postcode	2530		
Local Government Area/s							
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	n/a		Northing	n/a
Owner	Unspecified						
Current use	Paddock						
Former Use	Potential Residence and Stockyard						
Statement of significance	The potential archaeological site of Daly's Hut and Stockyard is of local significance for its potential to inform regarding the construction, operation and subsequent abandonment of forgotten structures and the early settlement of the Illawarra.						
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>			

DESCRIPTION						
Designer	NA					
Builder/ maker	NA					
Physical Description	During the field survey the site was observed to be a grassed paddock.					
Physical condition and Archaeological potential	The site possesses moderate archaeological potential.					
Construction years	Start year			Finish year		
Modifications and dates	NA					
Further comments						

HISTORY	
Historical notes	<p>The 1889 Parish Plan indicates that there was a hut and yards near the junction of Hayes Lane and Bong Bong Road(see image below). The Plan attributes these to a Daly.</p> <p>There is no other reference to the buildings on the maps or aerials.</p> <p>There is no evidence of a building visible on the three high resolution images available on Nearmap.</p> <p>Remains from a Hut might include structural remains such as building footings and post holes, although these remains may be quite ephemeral. It is possible that deposits of artefacts would be located in the area.</p>

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APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	The potential archaeological site, of a structure about which little is known, is of local research potential for its potential to reveal details regarding the construction, operation and subsequent abandonment of this forgotten structure.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it no longer represents its class.
Integrity	The integrity of the potential archaeology at this site is indeterminate.

HERITAGE LISTINGS	
Heritage listing/s	This item is not listed on any heritage schedules.

RECOMMENDATIONS	
Impact	Water pipeline and Wastewater pipe are proposed to be constructed along West Dapto Road, which may impact on New Archaeological Site 6.
Recommendations	It is recommended that the area be avoided and the pipelines located within the road reserve. If this is not practicable the following management is recommended: <ul style="list-style-type: none"> • Develop a clearer understanding of the archaeological potential of the site by undertaking the following: <ul style="list-style-type: none"> ○ Vegetation removal to allow for a more detailed visual inspection ○ A remote sensing survey along the route to identify the possibility of sub-surface remains of the buildings being located during construction ○ Development of appropriate management options (likely to be either test excavation prior to construction, archaeological monitoring during construction or no further archaeological work).

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	187		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	21/02/2011

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	1889 Kembla Parish Plan showing Hayes Lane near the intersection with Bong Bong Road. Department of Lands
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Heritage Data Form

Image year	1889	Image by		Image copyright holder	Department of Lands
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Heritage Data Form

ITEM DETAILS							
Name of Item	Coral Tree Avenue (188)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Private Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s							
Property description	Private Road to west of northern end of Hayes Lane						
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	293742	Northing	6181152	
Owner	Unspecified						
Current use	Avenue of Trees						
Former Use	Avenue of Trees						
Statement of significance	This item does not meet the significance threshold.						
Level of Significance	State <input type="checkbox"/>				Local <input type="checkbox"/>		

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	Running west from the end of Hayes Lane is a private road heading towards the escarpment. The road follows a line of Coral Trees, which also extend to the north at both ends to form a [shape. The road is lined on the southern side by a line of 17 Coral Trees. The eastern arm runs north, with 20 trees stretching towards the creek. The portion closest to the private road has evidence of a former fence line underneath the trees in the form of coarse concrete posts. On the western arm the trees extend halfway to the creek, however only two trees were identified during field survey due to dense undergrowth.						
Physical condition and Archaeological potential	The trees are in good health. Archaeological potential is limited.						
Construction years	Start year				Finish year		
Modifications and dates	NA						
Further comments							

HISTORY	
Historical notes	The Coral Trees probably were planted around a fenced paddock, which has become disused and overgrown with vegetation. The trees do not appear on the 1949 aerials.

Heritage Data Form

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it no longer represents its class.
Integrity	The integrity of this item could be classified as fair.

HERITAGE LISTINGS	
Heritage listing/s	This item is not on a heritage schedule.

RECOMMENDATIONS	
Recommendations	While the Coral Trees are not of historical significance, they do add to the scenic quality of the area. It is suggested that the trees are not removed and that root disturbance is minimised to potential of shortening the lifespan of the trees. If this is not possible, however, the Avenue is no impediment on historical grounds.

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	188		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Coral Tree Avenue				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM

Heritage Data Form



Heritage Data Form

ITEM DETAILS							
Name of Item	Bike Ramp (189)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Hayes Lane						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s							
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	293797		Northing	6180729
Owner	NA						
Current use	Bike Ramp						
Former Use	Bike Ramp						
Statement of significance	This item does not meet the significance threshold.						
Level of Significance	State <input type="checkbox"/>				Local <input type="checkbox"/>		

DESCRIPTION								
Designer	Unknown							
Builder/ maker	Unknown							
Physical Description	This item consists of a treated timber and steel bike ramp and associated earth mounds. The ramp is decorated with flames cut from plastic sheeting.							
Physical condition and Archaeological potential	This item is in good physical condition. It possesses limited archaeological potential.							
Construction years	Start year			Finish year			Circa	<input type="checkbox"/>
Modifications and dates	NA							
Further comments								

HISTORY	
Historical notes	There is currently no historical information regarding this item, but it does not appear to be older than 20 years, at the outside.

Heritage Data Form

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it no longer represents its class.
Integrity	This item is in good condition and retains a moderate to high degree of integrity.

HERITAGE LISTINGS	
Heritage listing/s	This item is not on a heritage schedule.

IMPACT AND RECOMMENDATIONS	
Impact	A water pipeline is proposed along the western side of Hayes Lane. The Bike Ramp is within the 25 m pipeline corridor
Recommendations	The Bike Ramp is not of heritage significance and does not form an impediment on historical grounds.

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	189		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	21/02/2011

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Bike ramp				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM

Heritage Data Form



Heritage Data Form

ITEM DETAILS							
Name of Item	Bridgewater (190)						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Cleveland Road						
Suburb/town	Dapto				Postcode	2530	
Local Government Area/s							
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting	295724	Northing	6179745	
Owner	Unspecified						
Current use	Vacant Residence						
Former Use	Vacant Residence						
Statement of significance	This item does not meet the significance threshold.						
Level of Significance	State <input type="checkbox"/>				Local <input type="checkbox"/>		

DESCRIPTION									
Designer	Unspecified								
Builder/ maker	Unspecified								
Physical Description	A 1950/60s clad house. Currently vacant. During field survey AECOM met with the former tenant who still kept horses on the property. She stated that the land was owned by the local Catholic Church who intended to demolish the structure within two weeks.								
Physical condition and Archaeological potential	The item is in fair condition and possesses limited archaeological potential.								
Construction years	Start year				Finish year			Circa	<input type="checkbox"/>
Modifications and dates	NA								
Further comments	It is proposed to construct a Water pipeline along the length of Cleveland Road along with a Wastewater pipeline. These will impact the entrance to Bridgewater, which is not considered to be of significance. The House and Buildings are 139m south of the boundary and there will be no construction impacts on these buildings.								

HISTORY	
Historical notes	There are no specific historical details currently available for this site.

Heritage Data Form

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item does not meet this criterion as it is not important in the course or pattern of state or local history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it no longer represents its class.
Integrity	This item is in fair condition and possesses moderate integrity.

HERITAGE LISTINGS	
Heritage listing/s	This item is not on a heritage schedule. This item was mistakenly identified as Cleveland House in the HLA (2005) GIS data.

IMPACT AND RECOMMENDATIONS	
Impact	It is proposed to construct a Water pipeline along the length of Cleveland Road along with a Wastewater pipeline. These will impact the entrance to Bridgewater, which is not considered to be of significance. The House and Buildings are 139m south of the boundary and there will be no construction impacts on these buildings.
Recommendations	As there is not anticipated to be any impacts to Bridgewater no management measures are required.

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	190		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
This form completed by	Rochelle Coxon	Date	21/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	Bridgewater property entry				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS						
Name of Item	Wongawilli Rail Line (195)					
Other Name/s Former Name/s						
Area, Group, or Collection Name						
Street number						
Street name	Wongawilli Road (located behind Wongawilli subdivision towards mine)					
Suburb/town	Wongawilli			Postcode	2530	
Local Government Area/s	Wollongong					
Property description	Part Lot 14 DP 255284					
Location - AMG (if no street address)	Zone	56	Easting	293801	Northing	6182673
Owner	NRE					
Current use	Rail line					
Former Use	Rail line					
Statement of significance	The Wongawilli Rail Line is of local historical significance as it demonstrates an important pattern in the development of coal transportation in the Illawarra. As with other collieries in the area, Wongawilli constructed a private line to transport coal to the main government line. Additionally, it is of local significance as a rare example of a private rail line still in operation.					
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>		

DESCRIPTION						
Designer						
Builder/ maker						
Physical Description	The Wongawilli Rail Line was not inspected as it is within the active mine area and will not be impacted by the proposed water and wastewater pipelines.					
Physical condition and Archaeological potential	The Rail Line is still in operation and is continually undergoing maintenance as a result. It is expected to be in good physical condition, but hold no archaeological potential due to the continual replacement of elements as due to wear and tear.					
Construction years	Start year	1916	Finish year	1916	Circa	<input type="checkbox"/>
Modifications and dates						
Further comments						

Heritage Data Form

HISTORY

Historical notes

The following history is taken from Reynolds, D.K. (2001) *The Railways of West Dapto: A history of the railways of the Illawarra Harbour & Land Corporation, the Dapto Smelting Works, the Wongawilli Colliery & Coke Works and Flemings or South Kembla Colliery*. BHP-Billiton Illawarra Coal. Coastline Printing: Unanderra.

In 1907 Andrew Lang opened a tunnel into a coal seam at Wongawilli. It was inspected by the Government's geological surveyor, L.F. Harper, in the same year and was declared to be a different seam to that being mined elsewhere on the south coast. In October of 1908 the *Illawarra Mercury* reported that it was probable that the Wongawilli mine would be purchased by a large company, who would mine the seam on a large scale and were also planning the construction of a branch railway line to connect the mine with the South Coast Railway at Brownsville. A stumbling block to the construction of the branch line was it would have to cross the abandoned Illawarra Harbour & Land Corporation (IH&LC) railway (item 171). It was suggested that an Act of Parliament may be required to overcome this.

In December 1909 the same paper reported that coal was still being mined at Wongawilli. Four teams were employed to haul the coal to the Dapto railway station and in this manner 11 tons a day were being moved. Production had increased by February 1910 with a day and night shift working to extract 200 tons per week. This required 40 horses and 10 bullocks to haul the coal to the station. It did not last long, two weeks later mining had been partially suspended to enable an incline from the mine entrance to a lower level to be constructed.

The Wongawilli Colliery, as it was then known, was bought by G. & C. Hoskins in 1916. The partnership had purchased a blast furnace at Lithgow in 1908, but had discovered Lithgow coal was not powerful enough to work the furnace. The Hoskins' trialled Illawarra coke from the Bulli No. 1 seam and, when it was proved to be successful, searched for a coal lease of their own. Not finding one for the Bulli No. 1 seam, they settled for the Wongawilli Colliery, which mines the Bulli No 3. seam (commonly referred to as the Wongawilli seam). The Wongawilli seam had a higher ash content, but it was later discovered that, when well washed, it produced a superior metallurgical coke than Bulli No. 1 seam.

The Hoskins' undertook significant improvements, including a coal washery and beehive coke ovens at the foot of the escarpment. They also constructed the branch railway line from the new washery and ovens to the South Coast Railway near Brownsville. It is presumed that the problem of crossing the IH&LC line was solved by building over the line. The line was opened on 25 October, 1916 and by November 1917, coke was being railed directly to Lithgow.

To assist in the construction of the branch line, the Hoskins purchased a small 0-4-0 saddle tank locomotive (see Reynolds for details on the history of the engine) and overhauled it, naming it "Wonga". When the branch line came into operation it was discovered that "Wonga" was too small. "Wonga" was retained for shunting purposes in the mine yard.

By 1928 the coke was being directed to the new blast furnace operated by Australian Iron & Steel at Port Kembla. In January 1938 the Port Kembla works opened a by-products coke oven. In response, washed coal was railed from the Wongawilli Colliery and the Wongawilli coke ovens were shut down.

Heritage Data Form

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	The Wongawilli Rail Line is of local historical significance as it demonstrates an important pattern in the development of coal transportation in the Illawarra. As with other collieries in the area, Wongawilli constructed a private line to transport coal to the South Coast Railway line.
Historical association significance SHR criteria (b)	The Wongawilli Rail Line does not meet this criterion as not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have technical or research significance.
Rarity SHR criteria (f)	The Wongawilli Rail Line is of local significance as a rare example of a private rail line still in operation.
Representativeness SHR criteria (g)	This item does not meet this criterion as it does not demonstrate the principle characteristics of its type due to reduced integrity through continual maintenance.
Integrity	The line is still in use and has been subject to continual maintenance. There is a low probability of original material remaining. However, the line does demonstrate the continual use of a purpose built, private line.

HERITAGE LISTINGS	
Heritage listing/s	Wollongong LEP (West Dapto) 2010. Item no. 61066

RECOMMENDATIONS	
Impact	No impacts will occur within the section of line listed on the West Dapto (2010) LEP. A series of water and waste water pipelines will intersect or run parallel to the unlisted portion of the Line.
Recommendations	As there is not anticipated to be any impacts to the heritage listed portion of the Line no management measures are required. The remaining portion of the Line does not hold heritage values that will be impacted by the construction or operation of the pipelines. No mitigation or management is required on heritage grounds.

**Appendix 3 Heritage Inventory Sheets –
Remaining Concept Approval
Area.**

Heritage Data Form

ITEM DETAILS					
Name of Item	One Lane Bridge Marshall Mount Road (61a)				
Other Name/s Former Name/s	NA				
Area, Group, or Collection Name	NA				
Street number	NA				
Street name	Marshall Mount Road				
Suburb/town	Marshall Mount			Postcode	2530
Local Government Area/s	Wollongong				
Property description					
Location - Lat/long	Latitude			Longitude	
Location - AMG (if no street address)	Zone	56	Easting	296044	Northing 6177570
Owner	NA				
Current use	Bridge				
Former Use	Bridge				
Statement of significance	This item is of local historical and representative significance as it is a good, intact example of a reinforced concrete and steel bridge typical of those constructed in the region post WWII to replace the earlier, less stable timber bridges in the area.				
Level of Significance	State <input type="checkbox"/>			Local <input checked="" type="checkbox"/>	

DESCRIPTION					
Designer	NA				
Builder/ maker	NA				
Physical Description	A small concrete bridge (c.1920-30s) is located on Marshall Mount Road crossing Duck Creek. The bridge is constructed from concrete supports and base with steel railings supported by four concrete pillars. The original bridge surface was concrete but it is now covered by the bitumen road surface. This bridge is very similar to the concrete bridge on West Dapto Bridge.				
Physical condition and Archaeological potential	The item is in good condition. It possesses low to moderate archaeological potential.				
Construction years	Start year		Finish year		Circa <input type="checkbox"/>
Modifications and dates	NA				
Further comments	This item is within 50m of the road corridor.				

Heritage Data Form

HISTORY	
Historical notes	The bridge is an example of the use of reinforced concrete and steel which rapidly superceded the use of timber at the end of World War 1. The bridge most likely replaced an earlier, less stable timber bridge.

APPLICATION OF CRITERIA	
Historical significance SHR criteria (a)	This item is of local historical significance as it is a good, intact example of a reinforced concrete and steel bridge typical of those constructed in the region post WWII to replace the earlier, less stable timber bridges in the area.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that could contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion as it is not rare.
Representativeness SHR criteria (g)	This item is of local representative significance as it is a good, intact example of a reinforced concrete and steel bridge typical of those constructed in the region post WWII to replace the earlier, less stable timber bridges in the area.
Integrity	This item is in good condition and retains a high level of integrity.

HERITAGE LISTINGS	
Heritage listing/s	NA

RECOMMENDATIONS	
Impacts	A water pipeline is to be constructed along Marshal Mount Road. The impact depends on how the pipeline is to cross the Creek. If it crosses on a separate structure there is likely to be no impact (visual curtilage is not of significance). If it crosses on by bolting it to the bridge then the impact on this item will be minimal and will not require further assessment.
Recommendations	The bridge is of a standard design and holds limited significance. No management, on heritage grounds, is required.

SOURCE OF THIS INFORMATION			
Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	61		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	25/02/2011

Heritage Data Form

IMAGES - 1 per page

Please supply images of each elevation, the interior and the setting.

Image caption	One-Lane Bridge, view south south west				
Image year	2011	Image by	Iain Stuart	Image copyright holder	AECOM



Heritage Data Form

ITEM DETAILS							
Name of Item	One Lane Bridge' - Marshall Mount Road						
Other Name/s Former Name/s	NA						
Area, Group, or Collection Name	NA						
Street number	NA						
Street name	Marshall Mount Road,						
Suburb/town	Marshall Mount				Postcode	2530	
Local Government Area/s							
Property description							
Location - Lat/long	Latitude				Longitude		
Location - AMG (if no street address)	Zone	56	Easting			Northing	
Owner	NA						
Current use	Bridge						
Former Use	Bridge						
Statement of significance	This item does not meet the threshold for local significance.						
Level of Significance	State <input type="checkbox"/>			Local <input type="checkbox"/>			

DESCRIPTION							
Designer	NA						
Builder/ maker	NA						
Physical Description	Two modern concrete bridges consisting of two lanes. Probably a mis-identification by AMBS of the previously recorded HLA bridge (61a).						
Physical condition and Archaeological potential	This item is in good physical condition. It does not possess archaeological potential.						
Construction years	Start year			Finish year			Circa <input type="checkbox"/>
Modifications and dates	NA						

Heritage Data Form

Further comments	<p>A water pipeline is to be constructed along Marshal Mount Road. The impact depends on how the pipeline is to cross the Creek. If it crosses on a separate structure there is likely to be no impact (visual curtilage is not of significance).</p> <p>If it crosses on by bolting it to the bridge then the impact on this item will be minimal and will not require further assessment.</p>

HISTORY

Historical notes	There are no specific historical details currently available for this site.
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APPLICATION OF CRITERIA

Historical significance SHR criteria (a)	This item not of historical significance as it does not demonstrate the local pattern of history.
Historical association significance SHR criteria (b)	This item does not meet this criterion as it does not have a strong or special association with the life or works of a person or group of persons of importance in state or local history.
Aesthetic significance SHR criteria (c)	This item does not meet this criterion as it does not demonstrate aesthetic characteristics and/or a high degree of creative or technical accomplishment.
Social significance SHR criteria (d)	This item does not meet this criterion as it does not have a strong or special association with a particular community or cultural group.
Technical/Research significance SHR criteria (e)	This item does not meet this criterion as it does not have the potential to yield information that will contribute to and/or enhance our understanding of state or local cultural history.
Rarity SHR criteria (f)	This item does not meet this criterion because it is not rare.
Representativeness SHR criteria (g)	This item does not meet this criterion as it has lost the principle characteristics of the class.
Integrity	This item is in good condition and has a high degree of integrity.

HERITAGE LISTINGS

Heritage listing/s	This item is not listed on a heritage schedule.
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RECOMMENDATIONS

Recommendations	The bridge is not of heritage significance and does not require heritage management.
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SOURCE OF THIS INFORMATION

Name of study or report	Water and Wastewater Servicing in the West Dapto Urban Release Area and Adjacent Growth Areas – Non-Indigenous Heritage Assessment and Impact Management	Year of study or report	2011
Item number in study or report	61b		
Author of study or report	Susan Lampard		
Inspected by	Susan Lampard		
NSW Heritage Manual guidelines used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
This form completed by	Rochelle Coxon	Date	21/02/2011

IMAGES - 1 per page