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**CBM Sustainable Design**  
Report for Fingal Tiers Coal  
Mine  
Stage 1 Heritage Report  
September 2011



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## Executive Summary

The Hard Rock Mining Company propose to re-open a coal mine at the former Barbers mine site in north eastern Tasmania. GHD Pty Ltd (GHD), in partnership with ArcTas, has been engaged by CBM Sustainable Design to undertake a desktop heritage assessment for the proposed re-opening of the mine. Advice was also provided for the purposes of obtaining an exploration licence on the site.

This heritage assessment forms part of the environmental assessments undertaken as background to the preparation of the Development Proposal and Environmental Management Plan (DPEMP) for the site. The desktop review involved searches on relevant heritage lists and identified the following:

- ▶ Tasmanian Heritage Register:
  - The subject site is not included on the register.
  - A section of Cullenswood (including Church of Christ and cemetery) falls within the existing licence area.
  - A section of Killymoon falls within the existing licence area and a small portion of the site is within the proposed initial mining area.
  - The boundary of the forestry lot on which the proposed initial mining area is situated is directly adjacent to both Killymoon and Cullenswood.
- ▶ Local Planning Scheme List:
  - The subject site is not included on the list.
  - Killymoon and Cullenswood (including Church of Christ and graveyard) are both included on the scheme list.
  - Harefield is adjacent to the forestry lot, but located a substantial distance from the subject site.
- ▶ Tasmanian Heritage Places Inventory:
  - There are three THPI sites located in the vicinity of the study area, all over 1km away (Fingal Probation Station, Duncan Coal Mine and Jimmy Ah Foo's).
- ▶ Register of the National Estate:
  - Cullenswood and outbuildings, Christ Church and Graveyard, Killymoon and Harefield are included in the RNE.
  - Harefield is included on the register and situated adjacent to the forestry lot boundary, but at some distance from the study area.

A site inspection was undertaken which relieved sites of some historical value within the study area, showing evidence of twentieth century coal mining activity, as follows:

- ▶ Site 1: Finger dump and remnant materials comprising remains of 20th century mining activity;
- ▶ Site 2: Adit (No 1) and remnant materials;
- ▶ Site 3: Adit (No 2) and remnant materials; and
- ▶ Site 4: Finger dump and remnant materials comprising remains of 20th century mining activity.

A Development Proposal and Environmental Management Plan is required to be submitted for the establishment of infrastructure and new workings on the site. It is of note that detailed plans for



establishment of infrastructure (and full associated works) at the mine have not yet been confirmed. The following recommendations are made:

- Seek clarification regarding heritage approvals and assessment requirements for the project (consultation with Heritage Tasmania and Break O’Day Council);
- The proposal should consider heritage requirements of the current Break O’Day Planning Scheme and the Draft Interim Planning Scheme;
- The heritage items should be considered as far as practicable in the design of the new mine and avoided where possible; and
- When the nature and extent of works for the mining activity is known, potential impacts to heritage features should be assessed (Heritage Impact Assessment) and mitigation measures devised and implemented. The assessment should include consideration of potential impacts to nearby listed heritage sites.



# 1. Introduction

## 1.1 Background

GHD Pty Ltd (GHD), in partnership with ArcTas, has been engaged by CBM Sustainable Design to undertake a desktop heritage assessment for the proposed re-opening of a coal mine at Fingal. This heritage assessment forms part of the environmental assessments undertaken as background to the preparation of the Development Proposal and Environmental Management Plan (DPEMP) for the site. The study has also been undertaken as background to an exploration application (see advice and recommendations attached at Appendix A).

## 1.2 Method and Scope

This assessment included a desktop heritage review involving the following:

- ▶ Review of site photographs;
- ▶ Searches on statutory and non-statutory heritage lists;
- ▶ Consideration of early county charts and aerial photographs; and
- ▶ General/targeted secondary source review.

The tasks were undertaken in order to determine the level of heritage assessment appropriate for the site and to make recommendations for any potential further assessment. It is of note that a site visit was undertaken by GHD and ArcTas in order to inform the development of an exploration licence application.

A detailed understanding of the historical development of the particular site is outside the scope of this study. However, key sources were reviewed to set the historic context and indicate the nature and type of features that may exist on the subject site. It is noted that consideration of Aboriginal heritage is outside the scope of this study.

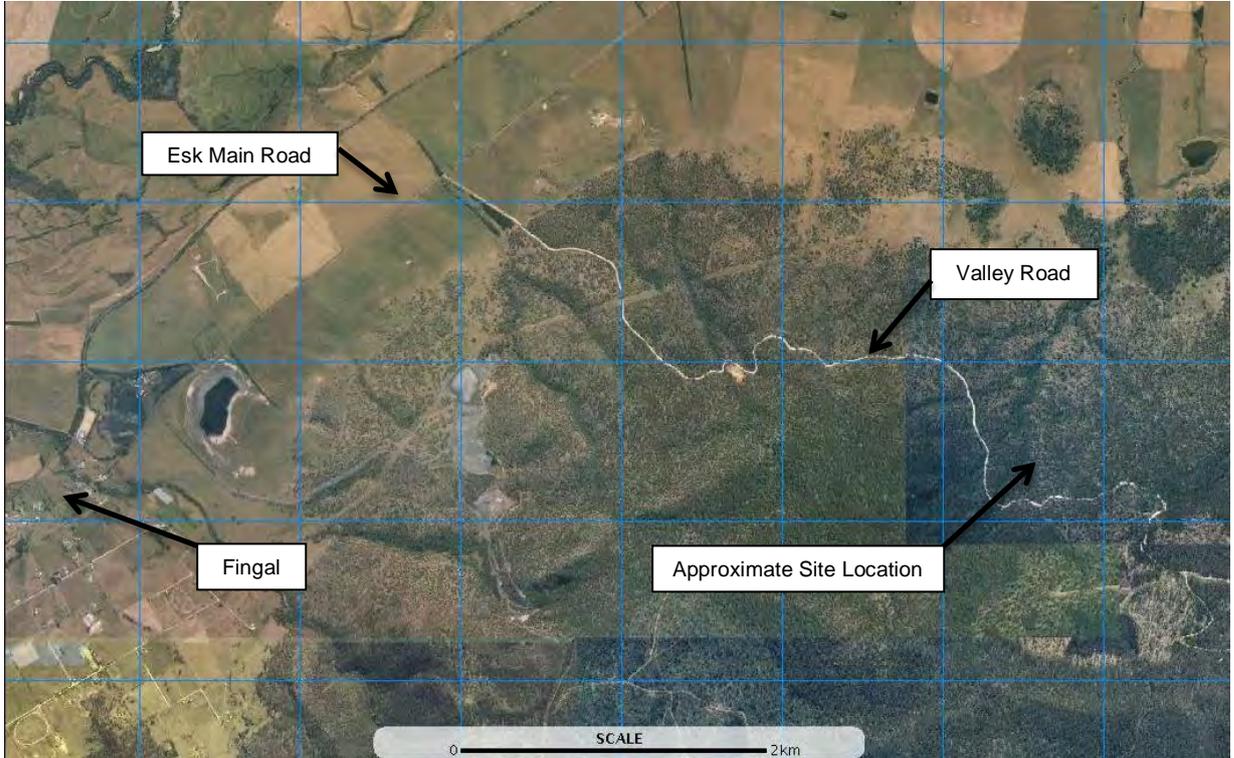
## 1.3 Subject Site

The location of the subject site is shown in Figure 1 below. The site is located off Valley Road, approximately 5 km from the intersection with Esk Main Road. Cardiff Creek and two tributaries pass through the site. The site is the former Barbers Mine (Number 1 and 2), later known as Valley Mine, which operated during the 1950s and 1960s.

The site is situated on a substantial forestry land holding, as can be seen in Appendix B. Given the extent of the lot, the study area for the purposes of this investigation is considered to be the proposed initial mining area, given that impacts as a result of this study would be expected to occur within that boundary. It is noted, however, that the proposed mining area is initial only and that construction/works locations have also not yet been confirmed. Appendix B shows the extent of the proposed lease boundary.

The field investigation was restricted to areas on and around the internal site tracks and the general locations as marked on the attached survey plan (Appendix C).

**Figure 1 Site Location**



Source: [www.theLIST.tas.gov.au](http://www.theLIST.tas.gov.au)

#### **1.4 Current Activity and Proposal**

The Hard Rock Mining Company wish to re-establish a coal mine at this location. A Development Proposal and Environmental Management Plan is required to be submitted for the establishment of required infrastructure and new workings on the site. It is of note that works areas and detailed plans for establishment of infrastructure at the mine have not yet been confirmed.



## 2. Search Results and Context

### 2.1 Listed Places

Searches were undertaken on relevant heritage lists for the township of Fingal, including the Tasmanian Heritage Register, the Tasmanian Heritage Places Inventory, the Register of the National Estate and the Break O'Day Planning Scheme to determine listings within, or in close proximity to the site. The search results are provided below. It is of note that the study area for the purposes of this investigation is the proposed initial mining area (B).

The following results are based on the approximate distance of the subject site from listed places.

#### 2.1.1 Tasmanian Heritage Register (THR)

A search was undertaken on the THR for places in surrounding the subject site. The list of places provided by heritage Tasmania is attached at Appendix D to this document. The majority of the heritage listed places are located more than 3 kilometres from the subject site.

Heritage Tasmania provided the following advice on review of the Notice of Intent:

*'The boundaries with respect to the proposed mining site and exploration leases are unclear from the maps provided in the Notice of Intent. As a precautionary measure, Heritage Tasmania suggests that specific comment be made in the DPEMP as to the boundaries in respect to the following places entered on the Tasmanian Heritage Register: Killymoon [PID 6413156, title 142934/1] and Cullenswood [PID 6408349, Title 1359341/1].'*

Cullenswood (including Church of Christ and cemetery) is a listed site and part of the property falls within the existing licence area. Killymoon is also included on the THR and a section of the property falls within the licence area and a small portion of the site is within the proposed initial mining area.

The title boundary of the property on which the proposed initial mining area is situated is directly adjacent to both Killymoon and Cullenswood.

The heritage properties and their proximity to the lease areas and title boundary are shown in B.

#### 2.1.2 Local Planning Scheme List

The Break O'Day Council Planning Scheme 1996 contains a Heritage Code. The intent of the Code is to protect items of heritage significance in the planning scheme area and proposals for use or development to which the Code applies must demonstrate compliance with the relevant performance criteria.

Where an item listed in Table 16.1 is on or adjacent to a development site proposed for use or development which is likely to affect that item, the applicant must demonstrate that:

- (a) the character or quality of the item can be preserved, enhanced or revealed; or
- b) the character or quality of the item will not be adversely affected; or
- c) there is no prudent or feasible alternative to carrying out the use or development.

Pursuant to clause 16.3.1, before considering an application for a use or development likely to affect an item and places of heritage significance listed in Table 16.1, or is of Heritage Value, Council may refer the application to the Tasmanian Heritage Council.



Under 16.3.2, in considering an application for use or development likely to adversely affect an item of heritage significance listed in Table 16.1, or is of heritage value. Council must take into account:

- (a) *any recommendations of the Tasmanian Heritage Council resulting from a reference under Clause 16.3.1; and*
- (b) *whether the proposed use or development will cause loss of heritage value to the item through inappropriate design (including height, scale, fenestration, siting, materials or colours); and*
- (c) *whether any new works or buildings will diminish the cultural significance, architectural integrity or historic value of any listed building, site, object or features; and*
- (d) *whether the provision for access and parking, the physical relationship to other buildings and principal street frontage and signage will diminish the particular values for which the item is listed.*

Clause 16.4 outlines procedures for works in relation to a registered place or a place within a heritage area, where it is stated that 'An application for a permit involving works in relation to a registered place or a place within a heritage area is subject to the requirements of the Historic Cultural Heritage Act 1995'.

A list of places included in Table 16.1 in Fingal and the Fingal district is attached at Appendix D to this document. The subject site is not included on the register and there are no sites situated along Valley Road. The places included in the Heritage Code of the Scheme in Fingal and Fingal District are located a distance of 3km or more from the site.<sup>1</sup>

Places included on the list at St Mary's are also attached at Appendix D. Killymoon and Cullenswood (including Church of Christ and graveyard) are both included on the list. As noted previously part of the Cullenswood property falls within the existing licence area. A section of the Killymoon property falls within the existing licence area and a small portion of the site is within the proposed initial mining area. The title boundary of the property on which the proposed initial mining area is situated is directly adjacent to both Killymoon and Cullenswood.

Harefield is adjacent to the forestry lot, but is a substantial distance away from the subject site (as seen in B).

It is of note that the study area for the purposes of this investigation is the proposed initial mining area. Listed sites in the Fingal township and district and St Mary's have been considered as they relate to the discrete study area that comprises a minor area of the overall PID. It is possible that some other places listed in the scheme are situated adjacent to the substantial forestry lot boundary.

### **2.1.3 Tasmanian Heritage Places Inventory (THPI)**

A search of the study area and its surrounds was undertaken on the THPI database in September 2011. There are three THPI sites located in the vicinity of the study area, including:

- ▶ Fingal Probation Station (over 1km from study area);

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<sup>1</sup> It is of note that 'Rostrevor' 'Ormley' and outbuildings, which is listed in the Scheme as situated on Esk Main Road, could not be located. However, the THR has an entry for the property at 3635 and 3837 Esk Main Road, a substantial distance from the study area.



- ▶ Duncan Coal Mine (over 1km from the study area); and
- ▶ Jimmy Ah Foo's, Fingal (over 1km from the study area).

It is difficult to scale the THPI database maps, so the distances from site noted above are therefore conservative and approximate only.

Given the distance of the sites from the study area, impacts are not anticipated (THPI maps are attached at Appendix D to this document).

#### **2.1.4 Register of the National Estate**

Cultural heritage sites included within the Register of the National Estate in the Fingal district are situated over 2km from the study area. It is of note that listed sites include not only significant buildings (mostly within the township), but also conservation areas, geoheritage sites and sites associated with penal activity.

A search for places in St Marys was also undertaken. Cullenswood and outbuildings is included on the RNE, as well as Christ Church and Graveyard. Killymoon is also included within the RNE. Harefield is included on the register and situated adjacent to the forestry lot boundary, but at some distance from the study area.

Other sites at St Mary's are situated at a substantial distance from the subject site.

## **2.2 Titles Search and Aerials**

### **2.2.1 Titles**

A search was undertaken at the Lands Titles Office. The general area is covered in two county charts, both of which are untitled:

- ▶ LTO Chart Cornwall 2A; and
- ▶ LTO Chart Cornwall 2B.

The following observations relate to the general area. The actual study area is located within a Crown lease and no titles were available at the LTO. The chart indicated the following grantees in the area:

- ▶ E L Ransom (lessee)
- ▶ R Barnes (lessee)
- ▶ W A Barnes (lessee)
- ▶ H T Abrahams (purchaser)
- ▶ G Woods (lessee)
- ▶ E Bosworth (no details except the land was executed from his Estate)
- ▶ M C Saunders (lessee)
- ▶ E Potter (purchaser)
- ▶ K Brodrib (lessee)
- ▶ J W Gleadow (grantee)



- ▶ B Potter (purchaser)
- ▶ W Talbot (grantee)
- ▶ John Gatty (purchaser)

The following summarises observations regarding the general area within and around the subject site:

- ▶ Smaller lots are apparent around the Fingal Rivulet
- ▶ Evidence of St Marys Railway
- ▶ Evidence of South Esk Highway
- ▶ There is a road on Waratah Creek
- ▶ There is a road through the property of Talbot.

The study area falls within the leases of W A Barnes, E L Ransom, and R Barnes, and also potentially R Legge and E Ransom (joint lessees). No specific infrastructure is marked on the County Charts in the study area.

Title documents viewed as part of this assessment are attached at Appendix E to this document.

### **2.2.2 Aerials**

The earliest aerial photograph viewed as part of this assessment dates to 1953. Valley road, creeks and tracks in the vicinity of the subject site are visible on the photograph. Quality/scale of the aerial restricts further interpretation of the image.

## **2.3 Historical Context**

The following provides a summary of points made in the literature reviewed as part of this assessment and is not intended to be a detailed history. The aim of this section is to:

- ▶ Establish the context of early regional development;
- ▶ Illustrate the rich regional coal mining activity; and
- ▶ Establish context to the subject site (former Barbers/Valley Mine).

While several documents were viewed in order to set this context, the work undertaken by Carol Bacon and Lindy Scripps largely informed development of this section.

### **2.3.1 Early Regional Development**

Henry Rice was commissioned by Lieutenant Governor William Sorell in 1820 to explore the East Coast of Van Diemen's Land, with the aim to identify more farm land for new settlers arriving from Europe. Rice left the coast at Falmouth, moving through the densely vegetated land past St Patricks Head and to an area that was flat and fertile, a valley with an abundance of water. Rice followed the Break O' Day, South Esk and St Pauls Rivers to Launceston. Land grants were issued on the basis of Rice's exploration and his reports of fertile land.<sup>2</sup>

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<sup>2</sup> Alexander, A. 2005: *The Companion to Tasmanian History* & <http://www.fingalvalleyhistory.com/history.htm>



Land commissioners inspected the Fingal Valley in 1827 and by that time a considerable amount of land had been taken up.<sup>3</sup> By the 1830s several settlers had established farms and homes had been constructed with the help of government supplied convict labour. The towns of the valley were mapped and communities began to be developed.<sup>4</sup> The township of Fingal was named by the surveyor, Roderic O'Connor in 1824.

In the 1830s a convict station was established in the region. By 1842 the Government moved 450 convicts to the area primarily to build the St Marys Pass. The road was completed in 1846 providing the settlers with easy access to the Falmouth Port, allowing produce to be shipped to markets more efficiently and thereby contributing significantly to the development of agriculture and industry.

The railway line was built in 1886, which provided substantial economic development in the district. The rail provided viable transport for agricultural produce, including the substantial cheese industry that was established by German settlers in 1855. The rail also contributed to the development of the local timber, coal, gold and tin mining industries. The timber and coal industries continued to be substantial industries in the region throughout history and into the present time.<sup>5</sup>

### 2.3.2 The Regional Coal Industry

Coal had been mined in many parts of the colony by the 1830s, and exploration and testing had commenced in the Fingal Valley by the mid 1800s.

In 1849 Milligan described the coalfields of the east Coast in considerable detail. He visited the outcrops of coal four kilometres south east of Fingal, making note of three seams of coal in the area, which were exposed in the upper two branches of an 'insignificant creek'. There was one main seam and two smaller seams at Cat and Kitten Creek (formerly Coal Creek). The same outcrops were visited by Selwyn in 1855.<sup>6</sup>

In the 1860s major deposits of black coal were discovered in the Fingal Valley region. However, transport prevented the earlier exploitation of the resource, given the distance of the Valley deposits to a port.<sup>7</sup>

Messers Brown and Hancock held a mining lease in 1861 near Fingal and in 1864 digging of an adit was commissioned by the government. The Launceston Gasworks and steamships '*Tasmania and Monarch*' tested the coal. Later in 1883 the railways also used the coal from the area.<sup>8</sup>

In 1862 a commission was appointed to test the Nicholas Range and Fingal. Mr Z. Williams, who at the time operated mines at Mersey, was appointed to cut drives for testing purposes. Transport difficulties restricted significant exploitation but some mining was carried out at Mt Malcolm in 1864. It is thought that these workings are those referred to by Thureau in 1883, who observed a tunnel 'constructed years ago' with a number of extensions.

Thureau's visit to the Valley in 1883 reported substantial activity. He made mention of activity at Telopea creek, which were shallow workings, as well as Mt Malcolm workings which were located close to where

<sup>3</sup> Scripps, L. 1997: *The Fingal Valley Historical Study*, Scripps, 1997

<sup>4</sup> Alexander op. Cit; <http://www.fingalvalleyhistory.com/history.htm>

<sup>5</sup> Alexander op. Cit; <http://www.fingalvalleyhistory.com/history.htm>

<sup>6</sup> Bacon, C. 1989: *The Coal Resources of Tasmania*, Bulletin 64.

<sup>7</sup> Scripps op. Cit; [http://www.mrt.tas.gov.au/portal/page?\\_pageid=35,831234&\\_dad=portal&\\_schema=PORTAL](http://www.mrt.tas.gov.au/portal/page?_pageid=35,831234&_dad=portal&_schema=PORTAL)

<sup>8</sup> Bacon op. Cit, p. 49



the Fingal, Duncan and Tasmanian mines were later established.<sup>9</sup> Thureau recommended that the local coal industry be supported and that 'every means' should be taken to 'inaugurate a cheap and rapid means of transit'.<sup>10</sup>

Construction of the railway to St Marys in the mid 1880s enabled the development of more substantial coal mining in the region. When the rail was opened in 1886, the Mt Nicholas and Cornwall collieries were already being worked and had established branch lines to the main rail. Operation of the rail further supported local industrial development.

In 1900 the Jubilee and Cardiff Coal Mines were operating in the region. By 1910, the Cornwell Coal and Mt Nicholas were the largest principle mines in the State. Cornwall Coal employed 77 men and produced 33446 tons of coal.<sup>11</sup>

In 1920 the Fingal Coal Prospecting Syndicate drove two tunnels near Coal Creek, which is now known as Cat and Kitten Creek. In 1922, Hills (et al) noted '*minor works of a prospecting nature*' in the Fingal Area. Hills and his colleagues inspected a total of three tunnels. One adit was on Cardiff Creek near where Barbers Mine later operated, with a later tunnel inspected in Crouchs Creek, to the east of Barbers Mine. They also inspected another tunnel at Cat and Kitten Creek in 1922.

H.J.E Yeates acquired leases that were previously held by the Fingal Coal Prospecting Syndicate in 1942. It was noted that mining from that time 'progressed in a more orderly fashion'. Duncan Mine was opened in 1945 and the Tasmanian Mine in 1954. The mines worked what was known as the Duncan seam and were situated within two hundred meters of each other on the east bank of Cat and Kitten Creek.<sup>12</sup>

The coal industry declined substantially due to competition from oil until more efficient mining and transport methods established in the 1960s allowed steaming coal to become competitive. The decline had a substantial impact on the local Fingal community.<sup>13</sup>

The Fingal region has provided much of Tasmania's coal since operations commenced and has been the best source and possibly the most important in Tasmania.

### 2.3.3 Basic Regional Mining Chronology

The Fingal Valley Historical Study, undertaken by Scripps in 1997, provides a chronological history of the area. The following points of note are included within this chronology relating to coal mining in the region:

- ▶ 1848 Milligan inspects coal seams at Fingal
- ▶ 1853 Killymoon coal tested
- ▶ 1862 Coal commission formed-Fingal Coal tested-mining at Mt Malcolm
- ▶ 1883 Killymoon coal mined

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<sup>9</sup>Bacon *op. Cit.*, p. 49

<sup>10</sup>Scripps *op. Cit.*, p. 92

<sup>11</sup>Scripps *op. Cit.*, p. 92

<sup>12</sup>Bacon *op. Cit.*, p. 49

<sup>13</sup>Bacon, C. & Banks, R., 1989: *A history of discovery, study and exploitation of coal in Tasmania*, Royal Society of Tasmania Papers Vol 123, p. 137-190.



- ▶ 1886 Fingal and Cornwall Coal Mines opened
- ▶ 1900 Jubilee and Cardiff Coal Mines operating
- ▶ 1917 Dalmayne Coal Mine [?opened]
- ▶ 1945 Duncan Coal Mine and Merrywood Mine operating and still working (1997)
- ▶ 1955 Barbers (Valley) mine opened<sup>14</sup>
- ▶ 1958 Mt Nicholas Mine closed
- ▶ 1964 Cornwall Coal mine closed
- ▶ 1964 Barbers (Valley) mine closed<sup>15</sup>

#### **2.3.4 Barbers (Valley) Mine**

A small mine known as Barbers Number 1 mine was opened at Cardiff Creek a few kilometres east of the Duncan Mine in 1955. This was in a similar location to where Hills had observed earlier prospecting works in 1922. Barbers Number 1 mine was later named Valley Number 1 mine. In 1963, a few hundred metres east of Barbers Number 1 mine, a section set of headings were driven. This mine was later named Valley Number 2 mine. The mines were owned by Mr Barber who established the Valley Coal Company in 1962.

Barbers (Valley) mines operated between 1955 to 1964. One adit was established in an outcrop of coal on a seam that measured 2.01m thick and 623 tonnes of coal were taken. A fault was encountered to the left of the main heading, which resulted in the tunnel being abandoned. An alternative tunnel was driven to the east of the initial tunnel. A second entrance for a return airway was established next to the new tunnel in 1960 and a fan was installed. These workings were closed by the end of 1962. In 1963, two new adits were driven to the east. The coal was mechanically cut and loaded by hand and drawn to the surface by horse drawn skips. In 1964 the Barbers (Valley) Number 2 closed as a result of a loss of markets. The part owners, Goliath Cement Ltd, changed their plant at Railton from coal to oil burning. The Barbers workings were also known as the Cardiff Colliery as they were situated on the tributary of Cardiff Creek.<sup>16</sup>

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<sup>14</sup> Bacon op. Cit, p. 49

<sup>15</sup> Bacon op. Cit, p. 49

<sup>16</sup> Bacon op. Cit, p. 49,52



## 3. Inventory of Sites

### 3.1 Site Investigation

A field investigation was undertaken on 24 October 2011. The field investigation was restricted to areas on and around the internal site tracks and the general locations as marked on the attached survey plan (Appendix C).

Ground visibility was generally adequate, but vegetation had potential to conceal sites in various areas.

### 3.2 Historical Themes

The historical context has established past land use activities and themes within the region related to mining, timber getting, rural settlement and transport. Features encountered in the field related to mining activity.

### 3.3 Site Inventory

Sites encountered in the field demonstrate twentieth century coal mining activity and have some historical value. The sites are as follows:

- ▶ **Site 1: Finger dump and remnant materials.** This site comprises remains of 20th century mining activity including:
  - Trolley frame (welded indicating twentieth century construction);
  - Several ore skip remains;
  - Large engine remnant;
  - Mid twentieth century vehicle bodies;
  - Remnant mining machinery;
  - Finger dump with timber decking;
  - Split timber stack with modern nails, potentially from hut/shelter; and
  - Cogs, pipes and general refuse.
- ▶ **Site 2: Adit (No 1) and remnant materials.** This site comprises:
  - A collapsed adit, which has most likely been blasted to fill; and
  - Iron railway remains are located adjacent to the adit.
- ▶ **Site 3: Adit (No 2) and remnant materials.** This site comprises:
  - A collapsed adit, which has most likely been blasted to fill;
  - Corrugated iron compressor shed (?) remains;
  - Remains of steam powered iron haulage device/duel action winch;
  - Remains of self-propelled iron mechanism (Bullman inscribed);
  - Upturned corrugated iron skips with timber bases and several other remnant ore skips;
  - Split timber stack with modern nails, potentially from hut/shelter; and
  - Timber power pole structures with relatively modern transformers.



- ▶ **Site 4: Finger dump and remnant materials.** This site comprises remains of 20th century mining activity including:
  - Finger dump with timber decking;
  - Remnant potential chute mechanism and hollow steel circular device;
  - Elevated timber framework; and
  - Skip bin, coal refuse and hanger bearing.

Photographs of features encountered within each site are attached as Appendix F to this document. The general location of the sites/material is marked on the survey map attached at C.



## 4. Recommendations

### 4.1 Overview

This report summarises the key historical themes related to the study area and its surrounds. Of the identified themes, the study area has relevance predominantly to mining activity. Other general heritage themes include timber getting, rural settlement and transport.

### 4.2 Listings Summary

Searches were undertaken on relevant heritage lists for the township of Fingal, including the Tasmanian Heritage Register, the Tasmanian Heritage Places Inventory, the Register of the National Estate and the Break O'Day Planning Scheme to determine listings within, or in close proximity to the subject site. In summary:

- ▶ THR:
  - The subject site is not included on the register.
  - The majority of the heritage listed places (in Fingal and along Esk Main Road) are located more than 3 kilometres from the subject site.
  - A section of Cullenswood (including Church of Christ and cemetery) falls within the existing licence area.
  - A section of Killymoon falls within the existing licence area and a small portion of the site is within the proposed initial mining area.
  - The boundary of the forestry lot on which the proposed initial mining area is situated is directly adjacent to both Killymoon and Cullenswood.
- ▶ Local Planning Scheme List:
  - The subject site is not included on the list.
  - The places in the heritage code in Fingal and Fingal District are situated a distance of 3km or more from the site.
  - Places included on the list at St Mary's are generally a substantial distance away from the subject site.
  - Killymoon and Cullenswood (including Church of Christ and graveyard) are both included on the scheme list.
  - Harefield is adjacent to the forestry lot, but located a substantial distance from the subject site.
  - It is possible that some other places listed in the scheme code are situated adjacent to the substantial forestry lot boundary.
- ▶ Tasmanian heritage Places Inventory:
  - There are three THPI sites located in the vicinity of the study area (Fingal Probation Station, Duncan Coal Mine and Jimmy Ah Foo's).
  - Each site is located over 1km from the site.
- ▶ Register of the National Estate:
  - Cultural heritage sites in the Fingal district are situated over 2km from the study area.



- Most sites at St Mary's are situated at a substantial distance from the subject site.
- Cullenswood and outbuildings, Christ Church and Graveyard, Killymoon and Harefield are included in the RNE.
- Harefield is included on the register and situated adjacent to the forestry lot boundary, but at some distance from the study area.

### 4.3 Site Features

Several features of interest were identified within the study area during the site visit and have been grouped into the following sites.

- ▶ Site 1: Finger dump and remnant materials;
- ▶ Site 2: Adit (No 1) and remnant materials;
- ▶ Site 3: Adit (No 2) and remnant materials; and
- ▶ Site 4: Finger dump and remnant materials.

These sites and materials are assessed having a degree of historical value. It is of note that consultation with MRT indicated that the site has value on the basis that most Tasmanian 1950/60s coal mining heritage has been on private property and evidence of activity no longer remains in most cases.<sup>17</sup>

It is of note that given weather conditions and lack of ground visibility in some areas, other sites may be apparent in the field.

### 4.4 Recommendations

A Development Proposal and Environmental Management Plan is required to be submitted for the establishment of new workings on the site. Detailed plans for establishment of infrastructure (and full associated works) at the mine has not yet been confirmed.

The following recommendations are made:

- ▶ Seek clarification regarding heritage approvals and assessment requirements for the project (consultation with Heritage Tasmania and Break O'Day Council);
- ▶ The proposal should consider heritage requirements of the current Break O'Day Planning Scheme and the Draft Interim Planning Scheme;
- ▶ The heritage items should be considered as far as practicable in the design of the new mine and avoided where possible; and
- ▶ When the nature and extent of works for the mining activity is known, potential impacts to heritage features should be assessed (Heritage Impact Assessment) and mitigation measures devised and implemented. The assessment should include consideration of potential impacts to nearby heritage sites (including Killymoon [PID 6413156, title 142934/1] and Cullenswood Killymoon [PID 6413156, title 142934/1] and Cullenswood [PID 6408349, Title 1359341/1]).

---

<sup>17</sup> R.Gregory, correspondence dated 13/10/2011



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Whitham, L, 2002: *Railways, Mines, Pubs and People and other historical research*, published by Author.

### Requested Documents

Cornwall Coal Company NG443 [Records] requested, but unavailable

### Correspondence:



Gregory R., correspondence dated 13/10/2011

**Websites:**

[http://www.mrt.tas.gov.au/portal/page?\\_pageid=35,831234&\\_dad=portal&\\_schema=PORTAL](http://www.mrt.tas.gov.au/portal/page?_pageid=35,831234&_dad=portal&_schema=PORTAL)

<http://www.fingalvalleyhistory.com/history.htm>

Bacon, C. 1983: The Fingal Coalfield. Article accessed at:

[http://www.mrt.tas.gov.au/mrtdoc/doinfo/download/UR1983\\_34\\_OLD/UR1983\\_34.pdf](http://www.mrt.tas.gov.au/mrtdoc/doinfo/download/UR1983_34_OLD/UR1983_34.pdf)

**Primary Sources**

- ▶ LTO Chart Cornwall 2A
- ▶ LTO Chart Cornwall 2B





Appendix A  
Exploration Licence Heritage Advice



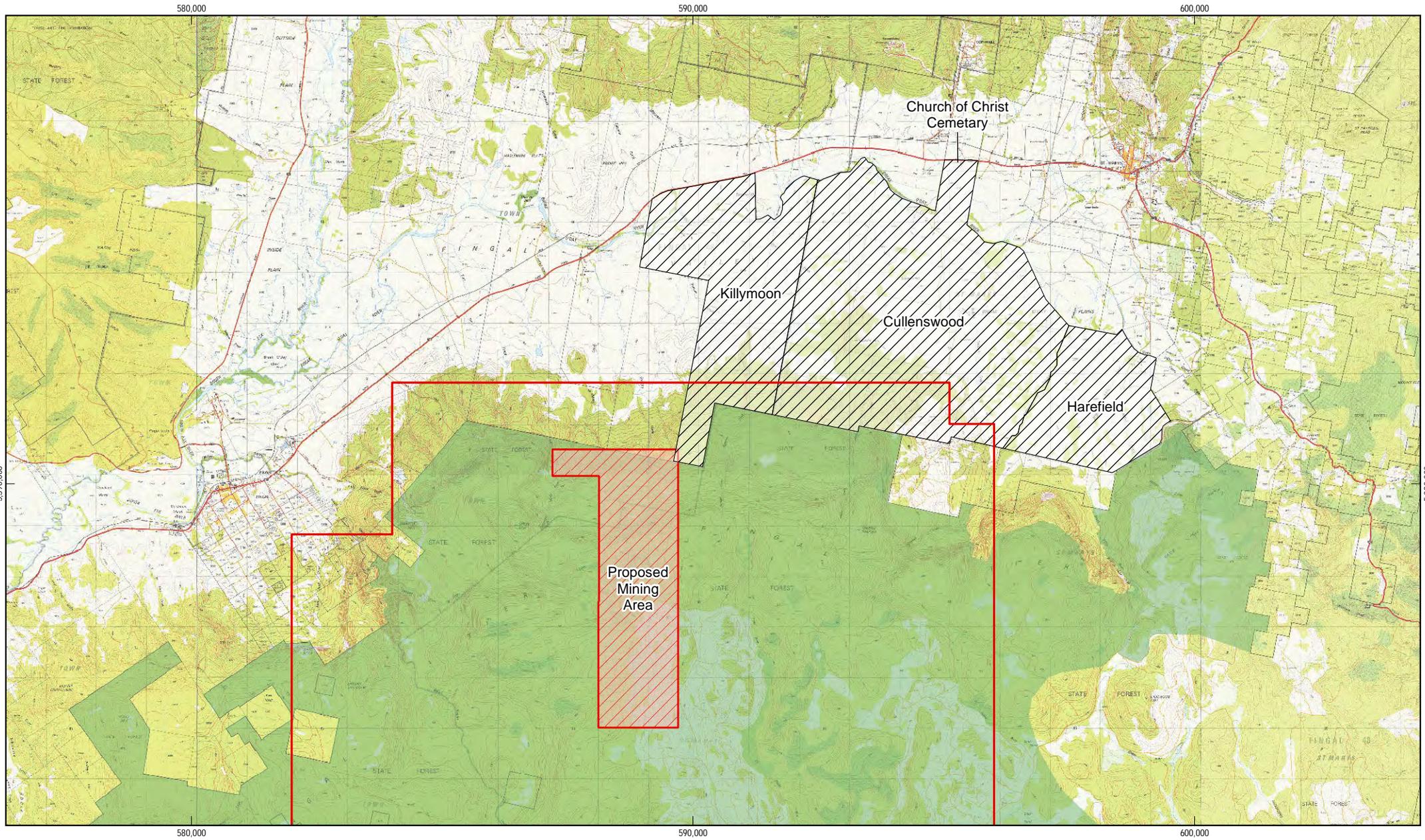
### ***Summary of Exploration Licence Heritage Advice***

It is understood that minor excavation works adjacent to the adits is required for the purposes of sampling. From a heritage perspective, given the relatively recent history of the site and the current poor condition of the adits, minor works adjacent to the adits for sampling purposes are acceptable, subject to the following conditions:

- ▶ Where deemed possible, safe and practical, portable mining equipment and infrastructure/heritage items should remain in situ.
- ▶ Any portable mining equipment and infrastructure/heritage items situated in or around the works area (including equipment/material on access tracks) that may be damaged during works is to be relocated clear of the works area. The items should remain within the site and (if possible) ultimately be replaced in the initial location after works.
- ▶ A photographic record and GPS coordinates for items should be established prior to moving items.
- ▶ There should be no impacts to any non-portable mining infrastructure or equipment/heritage items situated on the site and access ways during works.
- ▶ If potential archaeological evidence should be uncovered or disturbed during works, work should cease in the area and a qualified archaeologist notified so an inspection of the feature can take place if the archaeologist deems this to be necessary. While encountering such material is assessed by senior Archaeologist Parry Kostoglou as unlikely, it is noted that potential material could include manufactured elements employing timber, steel, iron, stone or brick. Evidence of adits and/or testing areas may also be encountered.
- ▶ Brief contractors on a process of conservation for the material on site.
- ▶ Fence off materials in the area for protection where appropriate.



Appendix B  
Lease Boundary Map



Paper Size A4



Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 55



**LEGEND**

-  Proposed Mining Area
-  License Area
-  Heritage Property
-  Forestry Tasmania Land



CLIENTS | PEOPLE | PERFORMANCE



CBM Sustainable Design  
Fingal Tier Coal Mine  
Flora and Fauna Study

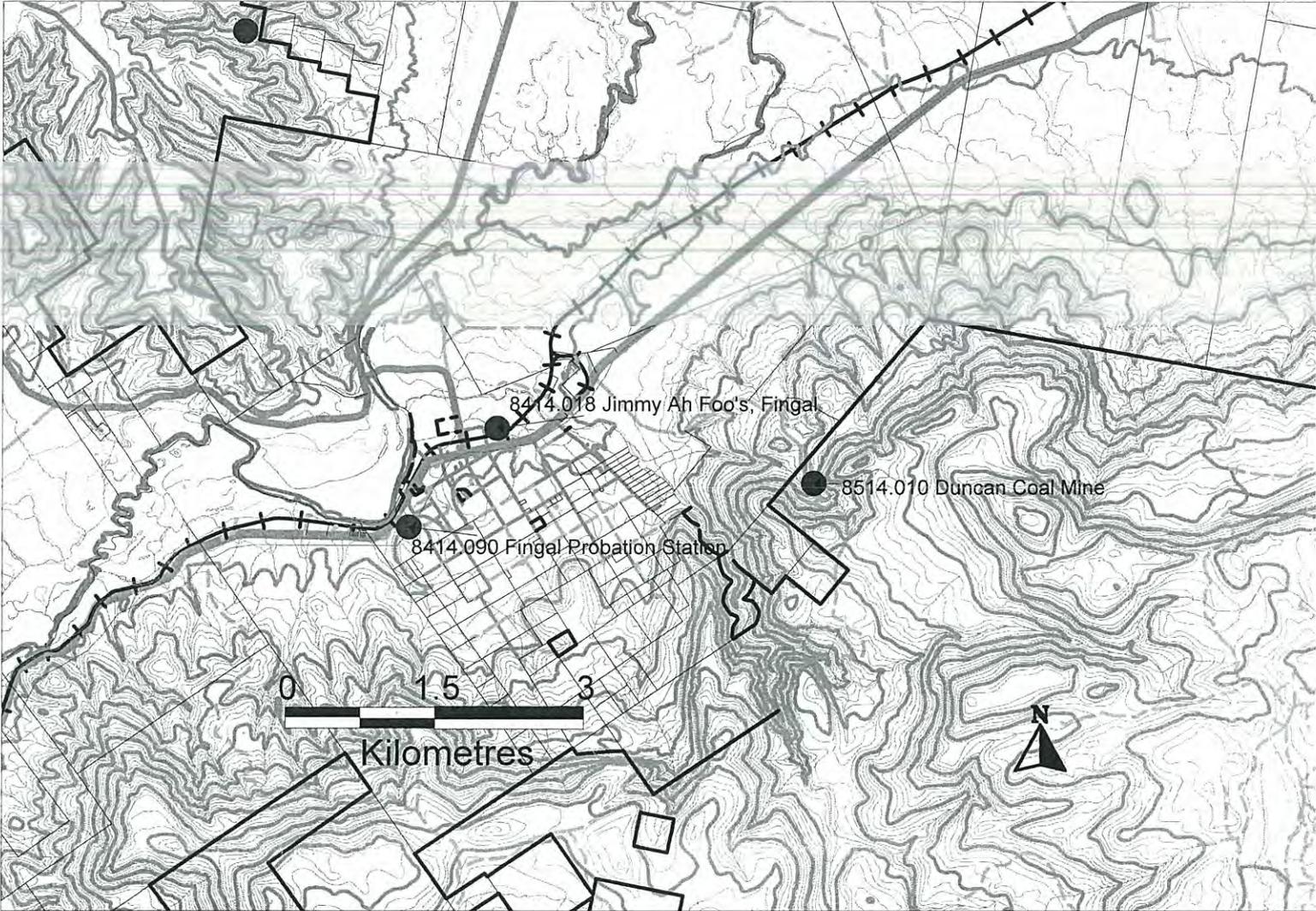
Job Number	32-16074
Revision	A
Date	28 Oct 2011

Heritage Properties  
near Mining Area Boundary **Figure 1**



Appendix C

## Survey Plan and Field Investigation Areas





Appendix D

## Listings

Planning Scheme; THR; RNE; THPI



## Planning Scheme List

### FINGAL (District)

Evercreech Forest reserve "Malahide"	11 km NE of Mathinna Mathinna Rd – 11km NE of Fingal	RNE,NB C, RNE
Mt Victoria-Rattler Range	9 km NE of Ringarooma	INE, A
Mt Victoria Rock Shelters "Rostrevor"	14 km NNW of Mathinna Esk Main Road	INE, A R
"Ormley" & outbuildings		R

### FINGAL (Town)

Fingal Probation Station	Franks St	C
Uniting Church (Manse)	Cnr Grant & Seymour Sts	C, RNE
St Josephs Catholic Church	Cnr Gray & Victoria Sts	C, RNE
Stone Cottage	Legge St	R
Stone Cottage	Russell St	R
Uniting Church	Cnr Grant & Seymour Sts	C, RNE
Schoolmaster's House and Primary School	Cnr Victoria & Seymour Sts	C, RNE
Convict Cells	Steiglitz St	C
Former Police Magistrates House	Steiglitz St	R
Cottage	Cnr Talbot & Champ Sts	R
Former Tasmanian Hotel	Talbot St	C, RNE
Hotel Fingal & outbuildings	Cnr Talbot & Gleadow Sts	C, RNE
Railway Station	Talbot St	C, RNE
St Peters Church of England	Talbot St	C, RNE
Stables	Cnr Talbot & Fraser Sts	C, RNE
Store	Cnr Talbot & Gleadow Sts	R
Store (Holders) & outbuildings	Talbot St	C, RNE
Store (Holders) Georgian section	Talbot St	C, RNE
Sweets Bodyworks	Talbot St	R
Wooden Cottage	Cnr Victoria & Legge Sts	R
School	Victoria St	C, RNE

### ST MARYS (District)

Church of Christ Graveyard "Cullenswood"	Esk Highway 3 km W of St Marys	C, RNE C, RNE
"Harefield"	Harefield Rd 3 km W of St Marys	C, RNE
"Killymoon"	Esk Highway 8.5 km W of St Marys	C, RNE
Lower Marsh Creek Area (450 ha)	8.5 km SE of St Marys	RNE
St Marys Pass State Reserve	4km E of St Marys	C, RNE,NB
St Patricks Head State Reserve	3km E of St Marys	C, RNE,NB

### ST MARYS (Town)

Bakery		R
--------	--	---



Bakery Residence		R	
Railway Station	Esk Highway		C, RNE
Residence	East End of Highway (South)		R
Residence	East End of Highway (North)		R
St Marys Hotel	Main Road		C, RNE
Valley Trading Company		R	
Timber Residence & Store	38 Main St		R

#### KEY to Table 16.1

C Classified by the National Trust

R Registered with the National Trust

A Aboriginal Significance

RNE Registered National Estate

INE Interim National Estate

NB Areas of Outstanding Natural Beauty



THR

ON ESK MAIN ROAD

556	<a href="#">Ormley</a>	R77	3635 Esk Main Road, Fingal, 7214, TAS	ESK MAIN RD, FINGAL, 7214	Permanent
557	<a href="#">Rostrevor</a>	R78	RA 3837 Esk Main Road, Fingal, 7214, TAS	3837 ESK MAIN RD, FINGAL, 7214	Permanent
602	<a href="#">Cullenswood Estate including Christ Church and Cemetery</a>	C123	RA 6870 Esk Main Road, St Marys, 7215, TAS	6870 ESK MAIN RD, ST MARYS, 7215	Permanent
604	<a href="#">Killymoon</a>	R125	RA 6332 Esk Main Road, St Marys, 7215, TAS	6332 ESK MAIN RD, ST MARYS, 7215	Permanent
4881	<a href="#">Eastbourne House</a>	C4402	RA 1787 Esk Main Road, Avoca, 7213, TAS	1787 ESK MAIN RD, AVOCA, 7213	Nomination
4982	<a href="#">Milford</a>	R4503	RA 911 Esk Main Road, Conara, 7211, TAS	911 ESK MAIN RD, CONARA, 7211	Permanent
5905	<a href="#">Tullochgorum Railway Station</a>	C5258	4529 Esk Main Road, Fingal, 7214, TAS	4529 ESK MAIN RD, FINGAL, 7214	Permanent
10218	<a href="#">St Mary's Pass probation station</a>	10218	Esk Main Road, St Marys, 7215, TAS		Nomination only
10740	<a href="#">St Marys Railyard, including tank, platform &amp; loading ramp</a>	10740	Esk Main Road, St Marys, 7215, TAS		Permanent
11651	<a href="#">Convict Burial Site</a>			7445 ESK MAIN RD, ST MARYS, 7215	Nomination

REGISTERED IN FINGAL TOWNSHIP

556	<a href="#">Ormley</a>	R77	3635 Esk Main Road, Fingal, 7214, TAS	ESK MAIN RD, FINGAL, 7214	Permanent
557	<a href="#">Rostrevor</a>	R78	RA 3837 Esk Main Road, Fingal, 7214, TAS	3837 ESK MAIN RD, FINGAL, 7214	Permanent
558	<a href="#">Malahide</a>	C79	RA 80 Mathinna Road, Fingal, 7214, TAS	80 MATHINNA RD, FINGAL, 7214	Permanent
559	<a href="#">Former Fingal Probation Station/ Superintendent's Quarters</a>	R80	13 Russell Street, Fingal, 7214, TAS	13 RUSSELL ST, FINGAL, 7214	Permanent
560	<a href="#">St Andrew's Uniting Church</a>	C81	Seymour Street, Fingal, 7214, TAS	SEYMOUR ST, FINGAL, 7214	Permanent
561	<a href="#">St Joseph's Catholic Church</a>	R82	Victoria Street, Fingal, 7214, TAS	VICTORIA ST, FINGAL, 7214	Permanent
565	<a href="#">Schoolmaster's House</a>	R86	Seymour Street,	SEYMOUR ST,	Permanent



	<a href="#">and Primary School</a>		Fingal, 7214, TAS	FINGAL, 7214	
566	<a href="#">Convict Cells</a>	R87	Stieglitz Street, Fingal, 7214, TAS	STIEGLITZ ST, FINGAL, 7214	Permanent
567	<a href="#">Police Magistrate's house</a>	R88	2 Short Street, Fingal, 7214, TAS	2 SHORT ST, FINGAL, 7214	Permanent
571	<a href="#">Talbot Arms</a>	R92	Talbot Street, Fingal, 7214, TAS	TALBOT ST, FINGAL, 7214	Permanent
573	<a href="#">St Peter's Anglican Church</a>	R94	Talbot Street, Fingal, 7214, TAS	2 TALBOT ST, FINGAL, 7214	Permanent
574	<a href="#">Stables</a>	R95	Talbot Street, Fingal, 7214, TAS	67 TALBOT ST, FINGAL, 7214	Permanent
576	<a href="#">Store - 2 storey (Holder)</a>	R97	Talbot Street, Fingal, 7214, TAS	TALBOT ST, FINGAL, 7214	Permanent
577	<a href="#">Store (Holder)</a>	R98	Talbot Street, Fingal, 7214, TAS	TALBOT ST, FINGAL, 7214	Permanent
5894	<a href="#">Fingal Post Office</a>	R5247	Talbot Street, Fingal, 7214, TAS	9 TALBOT ST, FINGAL, 7214	Permanent
5895	<a href="#">House</a>	C5248	7 Talbot Street, Fingal, 7214, TAS	7 TALBOT ST, FINGAL, 7214	Nomination
5896	<a href="#">Sweet's Bodyworks</a>	C5249	Talbot Street, Fingal, 7214, TAS	TALBOT ST, FINGAL, 7214	Nomination
5898	<a href="#">Shop (Sarich)</a>	R5251	Cnr Talbot and Gleadow Street, Fingal, 7214, TAS	11 TALBOT ST, FINGAL, 7214	Permanent
5903	<a href="#">Fingal Railway Station</a>	R5256	Short Street, Fingal, TAS		Permanent
5905	<a href="#">Tullochgorum Railway Station</a>	C5258	4529 Esk Main Road, Fingal, 7214, TAS	4529 ESK MAIN RD, FINGAL, 7214	Permanent
5918	<a href="#">Fingal Probation Station, Former Hospital</a>	C5270	Legge Street, Fingal, 7214, TAS	LEGGE ST, FINGAL, 7214	Permanent
10254	<a href="#">Fingal Probation Station</a>	10254	14-16 Stieglitz Street, Fingal, 7214, TAS	14-16 STIEGLITZ ST, FINGAL, 7214	Permanent
10255	<a href="#">Fingal Probation Station</a>	10255	18-20 Stieglitz Street, Fingal, 7214, TAS	18-20 STIEGLITZ ST, FINGAL, 7214	Permanent
10256	<a href="#">Fingal Probation Station</a>	10256	17 Russell Street, Fingal, 7214, TAS	17 RUSSELL ST, FINGAL, 7214	Permanent
10257	<a href="#">Fingal Probation Station</a>	10257	Russell Street (including road verge), Fingal, 7214, TAS	Russell Street (including road verge), Fingal, 7214	Permanent

## RNE

### St Mary's

1. [Christ Church and Graveyard](#)  
Esk Main Rd, Cullenswood via St Marys, TAS
2. [Cullenswood and Outbuildings](#)

LGA: Break O'Day Municipality  
Source: Register of the National Estate

LGA: Break O'Day Municipality



- Esk Main Rd, St Marys, TAS  
Source: Register of the National Estate
3. [Harefield](#)  
Harefield Rd, St Marys, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
  4. [Killymoon Homestead and Outbuildings](#)  
Esk Main Rd, St Marys, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
  5. [Lower Marsh Creek Area](#)  
Tasman Hwy, St Marys, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
  6. [Slab Slaughter House](#)  
Tasman Hwy, St Marys, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
  7. [Slab Slaughter House](#)  
Gray Road, St Marys, TAS  
LGA: Break O'Day  
Source: Tasmanian Heritage Register
  8. [St Marys Hotel](#)  
Main St, St Marys, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
  9. [St Marys Pass State Reserve](#)  
Tasman Hwy, St Marys, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
  10. [St Marys Railway Station](#)  
Esk Main Rd, St Marys, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
  11. [St Patricks Head State Reserve](#)  
St Marys, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate

## Fingal

1. [Ben Lomond Conservation Area \(Part\)](#)  
Fingal, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
2. [Convict Cells](#)  
Stieglitz Street, Fingal, TAS  
LGA: Break O'Day  
Source: Tasmanian Heritage Register
3. [Fingal Hotel and Outbuildings](#)  
Talbot St, Fingal, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
4. [Fingal Post Office](#)  
Talbot Street, Fingal, TAS  
LGA: Break O'Day  
Source: Tasmanian Heritage Register
5. [Fingal Primary School](#)  
Victoria St, Fingal, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
6. [Fingal Primary School & Residence Group](#)  
Seymour St, Fingal, TAS  
LGA: Break O'Day Municipality  
Source: Register of the National Estate
7. [Fingal probation station](#)  
17 Russell Street, Fingal, TAS  
LGA: Break O'Day  
Source: Tasmanian Heritage Register
8. [Fingal Probation Station](#)  
14-16 Stieglitz Street, Fingal, TAS  
LGA: Break O'Day  
Source: Tasmanian Heritage Register
9. [Fingal probation station](#)  
18-20 Stieglitz Street, Fingal, TAS  
LGA: Break O'Day  
Source: Tasmanian Heritage Register
10. [Fingal Probation Station, Former Hospital](#)  
Legge Street, Fingal, TAS  
LGA: Break O'Day  
Source: Tasmanian Heritage Register
11. [Fingal Railway Station](#)  
LGA: Break O'Day



	Short Street, Fingal, TAS	Source: <b>Tasmanian Heritage Register</b>
12.	<a href="#">Fingal Railway Station</a> Short St, Fingal, TAS	LGA: <b>Break O`Day Municipality</b> Source: <b>Register of the National Estate</b>
13.	<a href="#">Former Council Chambers</a> 1 Stieglitz Street, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
14.	<a href="#">Former Fingal Probation Station/ Superintendents Quarters</a> 13 Russell Street, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
15.	<a href="#">Holder Brothers Store (1857 Section)</a> Talbot St, Fingal, TAS	LGA: <b>Break O`Day Municipality</b> Source: <b>Register of the National Estate</b>
16.	<a href="#">Holder Brothers Store (Principal Building and Stables)</a> Talbot St, Fingal, TAS	LGA: <b>Break O`Day Municipality</b> Source: <b>Register of the National Estate</b>
17.	<a href="#">Holder Brothers Store Group</a> Talbot St, Fingal, TAS	LGA: <b>Break O`Day Municipality</b> Source: <b>Register of the National Estate</b>
18.	<a href="#">Malahide Homestead and Outbuildings</a> Malahide Rd, Fingal, TAS	LGA: <b>Break O`Day Municipality</b> Source: <b>Register of the National Estate</b>
19.	<a href="#">Ormley</a> 3635 Esk Main Road, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
20.	<a href="#">Police Magistrates house</a> 2 Short Street, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
21.	<a href="#">Rostrevor</a> RA 3837 Esk Main Road, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
22.	<a href="#">Schoolmasters House and Primary School</a> Seymour Street, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
23.	<a href="#">Schoolmasters Residence</a> Seymour St, Fingal, TAS	LGA: <b>Break O`Day Municipality</b> Source: <b>Register of the National Estate</b>
24.	<a href="#">Shop (Sarich)</a> Cnr Talbot and Gleadow Street, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
25.	<a href="#">St Josephs Catholic Church</a> Gray St, Fingal, TAS	LGA: <b>Break O`Day Municipality</b> Source: <b>Register of the National Estate</b>
26.	<a href="#">St Peters Anglican Church</a> Gleadow St, Fingal, TAS	LGA: <b>Break O`Day Municipality</b> Source: <b>Register of the National Estate</b>
27.	<a href="#">St. Andrews Uniting Church</a> Seymour Street, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
28.	<a href="#">St. Josephs Roman Catholic Church</a> Gray Street And Victoria St Corner, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
29.	<a href="#">St. Peters Anglican Church</a> Talbot Street, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
30.	<a href="#">Stables</a> Talbot Street, Fingal, TAS	LGA: <b>Break O`Day</b> Source: <b>Tasmanian Heritage Register</b>
31.	<a href="#">Stables</a> Esk Main Rd, Fingal, TAS	LGA: <b>Break O`Day Municipality</b> Source: <b>Register of the National Estate</b>



- |     |  |  |
|-----|--|--|
| 32. | <a href="#"><u>Store (Holder)</u></a><br>Talbot Street, Fingal, TAS            | LGA: Break O`Day<br>Source: Tasmanian Heritage Register                  |
| 33. | <a href="#"><u>Store - 2 storey (Holder)</u></a><br>Talbot Street, Fingal, TAS | LGA: Break O`Day<br>Source: Tasmanian Heritage Register                  |
| 34. | <a href="#"><u>Talbot Arms</u></a><br>Talbot Street, Fingal, TAS               | LGA: Break O`Day<br>Source: Tasmanian Heritage Register                  |
| 35. | <a href="#"><u>Tasmanian Hotel</u></a><br>Talbot Street, Fingal, TAS           | LGA: Break O`Day<br>Source: Tasmanian Heritage Register                  |
| 36. | <a href="#"><u>Tasmanian Hotel (former)</u></a><br>18 Talbot St, Fingal, TAS   | LGA: Break O`Day Municipality<br>Source: Register of the National Estate |
| 37. | <a href="#"><u>Uniting Church</u></a><br>Grant St, Fingal, TAS                 | LGA: Break O`Day Municipality<br>Source: Register of the National Estate |



Appendix E  
County Chart









Appendix F  
Site Photographs



## Site 1











## Site 2





## Site 3











## Site 4







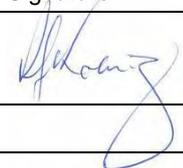
**GHD**

2 Salamanca Square Hobart 7000  
GPO Box 667 Hobart 7001  
T: 03 6210 0600 F: 03 6210 0601 E: hbamail@ghd.com

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**Document Status**

Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	Various	A.Johnson P.Kostoglou		R.Koenig		10/11