

# ATTACHMENT D

### HERITAGE INVENTORIES FOR NOTING

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Inventories are ordered and numbered, as exhibited, for sites recommended for listing.

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Annandale	
<b>22.</b> 1B Booth StreetSewage Pumping Station No. 3	
Camperdown	
<b>23.</b> 6-10 Mallett StreetFormer Grace Bros Repository	
24. 64-106 Mallett Street Former Bonds Industries complex including i Substation No. 181, Chesty Bond Mural and f commercial building façade for "Bonds Cafete 99 Church Street	ormer
Darlington	
<b>25.</b> 2-10 Golden Grove StreetFormer Jones IXL factory garage	
26.       181 Lawson Street       Former McMurtrie, Kellermann & Co factory (The Foundry)	
Erskineville	
27.         7-19 Coulson Street         Former Bakewell Brothers south-east wareho building	use
<b>28.</b> 127 Railway ParadeFormer factory chimney stack	
<b>29.</b> 18-20 Victoria StreetFormer Cleveland Shoe Company factory	
Forest Lodge	
<b>30.</b> 19 Ross StreetElectricity Substation No. 267	

Gleb	е	
31.	113 Mitchell Street	Former Glebe Volunteer Fire Station
Newt	town	
32.	10-12 Egan Street	Former Sydney Confectionery Company factory
33.	197-207 Wilson Street	Former F. W. Gissing factory
Redf	ern	
34.	53-63 Great Buckingham Street (and 611-619 Elizabeth Street)	Former A. Hordern & Sons factory complex
35.	99 Renwick Street	Electricity Substation No.112
Rose	bery	
36.	6-8 Crewe Place	Former Wrigley's factory
37.	85-113 Dunning Avenue	Rosella Preserving and Manufacturing Co. factory
38.	88 Dunning Avenue	Electricity Substation No.192
39.	115-133 Dunning Avenue	Former Commonwealth Weaving Mills and Frederick Rose factory
40.	120 Dunning Avenue	Former Otis Elevator Co. factory
41.	135-151 Dunning Avenue	Former Westinghouse factory
42.	142 Dunning Avenue	Electricity Substation No. 128
43.	1-11 Hayes Road	Former R. C. Henderson Ltd factory
44.	61-71 Mentmore Avenue (and 34 Morley Avenue)	Former Cyclone Fence and Gate Co factory
Surry	y Hills	
45.	268-274 Devonshire Street	Former Edward Hill & Co factory
46.	470-484 Elizabeth Street	Former W. C. Penfold & Co factory
47.	5 Fitzroy Place	Electricity Substation No. 229
48.	1-15 Foveaux Street	Former Farleigh Nettheim & Co Ltd warehouse
49.	47-97 Marlborough Street	Former David Jones factory
50.	13-15 Marshall Street	Former Allington Stoveworks factory
51.	11-13 Randle Street	Former R. C. Henderson Ltd factory
52.	4-34 Wentworth Avenue	Former warehouse group
Sydn	ley	
53.	115 Clarence Street	Former Noyes Bros warehouse
54.	185 Clarence Street	Former Shelley warehouse
55.	193-195 Clarence Street	Shorter House
56.	123-129 Clarence Street (and 252-258 Kent Street)	Former Edwards Dunlop & Co warehouses
57.	426-430 Kent Street	Former Grace House warehouse
Ultim	10	
58.	10-16 Bay Street	Part Bay Street Depot
Wate	erloo	
59.	723 Elizabeth Street	Former William Brooks factory
60.	378 George Street	Electricity Substation No. 75
61.		Removed

### Zetland

**62.** 146-158 Joynton Avenue

Former Joseph Lucas showroom, workshop and office

### Alexandria

**63.** North Alexandria industrial heritage conservation area

### Alexandria & Beaconsfield

**64.** William Street industrial heritage conservation area

# Inventory 5

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Item name: Former Walter Barr Pty Ltd factory including interiors				
Location: 2	-6 Birmingham Street Alexandria 2015		Sydney	
Address:	2-6 Birmingham Street		Planning:	Sydney South
Suburb/nearest town:	Alexandria 2015			
Local govt area: State:				Alexandria Cumberland
Other/former names:	Former Alsco Linen Services (c1980); Baxter	shop (2013)		
Area/group/complex:			Group	ID:
Aboriginal area:	Eora			
Curtilage/boundary:	As described in Sydney Local Environmental	Plan		
Item type:	Built Group: Mar	ufacturing and Processing	Category: Other	- Manufacturing & Processing
Owner:	Private - Individual			
Admin codes:	Code 2:		Code 3:	
Current use:	Retail (furniture)			
Former uses:	Factory			
Assessed significance:	Local	Endorsed si	gnificance:	
	Built in 1942 for plastic manufacturers, Walter Barr Pty Ltd, this former factory represents the industrial development of Alexandria during the mid-twentieth century. It is historically significant for its connection to the Australian manufacturing of plastic products and as evidence of this formerly widespread industry in Alexandria, which supported the manufacture of pharmaceuticals, cosmetics and alcohol. The former factory represents the development of new technology and products of the twentieth century, in particular the growing use of plastic.			its connection to industry in e former factory
	Products made at this factory supplied the Au innovations in compression-moulded plastic p of the twentieth century including meter conn Bottle Capsule, used to seal and dress alcohol the Australian market.	roducts designed and patent ection boxes, ice block trays	ed by Walter Barr 1 and water filters. 7	for new appliances The patented Betts
	The building represents a good example of a modest mid-twentieth century factory of Alexandria designed in the inter-war functionalist style. It features typical characteristics of the style including the dominant horizontal emphasis, high parapet, curved corners, decorative brickwork and engaged piers. The curved building frontage and its prominent corner site give the building landmark qualities in the local neighbourhood, where it marks the junction of two streets. The building makes an important contribution to the streetscapes of Birmingham Street and Gillespie Avenue, and is visible in the round from a number of near and distant vantage points.			
	The building forms one of a group of modest post-war periods, which give the street a distin the industrial origin of the street name and two the Birmingham of Australia.	nct character. The age and or	riginal use of these	buildings reinforce

The former Walter Barr Pty Ltd factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former factory is of local heritage significance in terms of its historical, aesthetic and representative values.

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney

**Historical notes** Early development of the locality: **of provenance:** 

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Site history:

In 1930 the land between Gillespie Avenue and Ellis Avenue, encompassing Birmingham Street was owned by Cent. Stor. Battery Co. Ltd. before its subsequent subdivision for the land occupied by the subject factory building.

This factory was constructed for Walter Barr Pty Ltd in 1942 to manufacture plastics. During the Second World War, its output supplied the defence forces. The proprietor Walter Barr also designed and patented a number of moulded plastic products.

On 10 June 1941, the subject lots 86-90 of the Birmingham Estate (DP 19171) were transferred to Mabel Agnes Barr, the wife of Walter Barr, manufacturer of Sydney (Certificate of Title 4530 f 49). The transfer included a covenant that no hotel, spirit licence or wine licence be issued for any premises of the site and that no noxious trade be carried out on the site (CT 5264 f 83). The 1942 land valuation (of 30 June) recorded that a brick factory and office, with a concrete floor and corrugated fibro roof had been built on this site (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, no 44). This building was also evident on the 1943 aerial photograph (SIX LPI).

Previously, Walter Barr Pty Ltd, of Gillespie Avenue had advertised for 'plastic moulders for defence work' on 7 February 1942 (SMH, 7 Feb 1942, p 20). On 12 September 1942, the company advertised for girls aged 17 to 19 for 'defence work in modern factory' (SMH, 12 Sept 1942, p 15). The firm was also innovative. Between 1936 and 1949, Walter Barr and Walter Barr Pty Ltd applied to register new designs for meter connection boxes, ice block trays and water filters (Series A1337, National Archives of Australia).

The scale of the plant can be judged from the 1945 Workplace Survey, which showed Walter Barr Pty Ltd of Gillespie Avenue, was a plastic moulder, using electrical machinery rated at 43 horsepower. The firm employed 53 workers at this time (SRNSW 7/6847).

Ownership of the site was transferred to Walter Barr Pty Ltd on 21 November 1946 (CT 5264 f 83).

The company's shares were purchased by the International Products Limited in 1946, which held the Australian patent for the Betts Bottle Capsule used to seal and dress alcohol bottles. Walter Barr Pty Ltd would be responsible for manufacturing them in Australia.

The prospectus issued by International Products Limited indicated that Walter Barr's operations would be substantially expanded with new plant and machinery for injection-moulding and extrusion of plastic products from the raw materials of 'Saran'. The prospectus estimated that £121,322 would be spent on these new buildings, plants and machinery (SMH, 5 Oct 1946, p 5).

Saran was a new plastic of the time developed in America and Canada. It was described as a technological achievement and one of the most promising developments in the plastics industry in the 1945 report to the NSW government. A tough and strong plastic, it was used for 'gorgeous fabrics for women and the almost everlasting rattan for upholstery' and applied to moulded products of all kinds such as chemical apparatus, insulators, food handling equipment, costume jewellery, pens and pencils, pharmaceutical and cosmetic containers and lighting fixtures. Saran was also applied to extruded products including rods, tubes and commercial equipment and materials (SMH, 5 Oct 1946, p 5).

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney

The 1943 and 1949 aerial photographs record the construction of the building in two stages. The northern section fronting Gillespie Avenue at No. 6 was constructed first prior to 1943 and the southern section along Birmingham Street at No. 2-4 afterwards by 1949. The southern site of No.2-4 is recorded as undeveloped land in the 1943 photo and as a building contained under three connected sawtooth roofs in 1949. (1943 and 1949 aerial photographs, SIX Land and property Information and City of Sydney)

On 12 December 1952, Walter Barr proposed to erect an additional building on the site for use as a staff dining room (Lots 86/90 Birmingham St, Street cards, NSCA). Architect Francis E Feledy appears to have designed that new building, with works valued at £3,000 (2-8 Birmingham St & Gillespie St, Street cards, NSCA).

Francis E Feledy designed a number of major factory buildings for the car manufacturing industry in southern Sydney, in particular located at Zetland on the former Victoria Park racecourse site, including buildings for Joseph Lucas, Nuffield (Australia), Olympic Tyre & Rubber Co and James N. Kirby Holdings (http://www.bmclaheritage.org.au/VP\_History.html, accessed 3 October 2014). His significance to the architectural and engineering profession and car manufacturing industry was reflected by the scholarship established in his name at the University of Technology Sydney, known as the Francis E Feledy Memorial Prize. This scholarship was established by staff of the British Motor Corporation to honour Feledy's work as an architect and engineer and support the development of these professions in Australia (https://www.uts.edu.au/future-students/scholarships/0000019541, accessed 3 October 2014).

Later, the building was used for tool-making, a refrigeration service store, and manufacturing and packing food and groceries. On 14 July 1972, the building was purchased by Alsco Linen Service Pty Ltd, when it was converted for use as a laundry and linen services (CT 5264 f 83). On 20 March 1986, Alsco Linen Service Pty Ltd proposed to construct additional staff amenities and a new workshop area in the warehouse with works valued at \$15,000 (2-8 Birmingham St, Street cards, NSCA).

Between 1998 and 2003, aerial photos from these years indicate that the three sawtooth roofs over the southern section of the site at No.2-4 Birmingham Street was removed and replaced with a single-pitch or flat roof.

Themes:	National theme	State theme	Local theme
	3. Economy	Commerce	Warehouses
	3. Economy	Industry	Factories
Designer:	Francis E Feledy (1952 addition)		
Builder:	Unknown		
Year started:	1942 Year com	pleted: 1952	Circa: Yes

item name. For mer waiter barr i ty Etu factor y including interiors						
Location: 2	2-6 Birmingham Street Alexandria 2015	Sydney				
Physical description:	The former factory was constructed for Walter Barr in two stages; in 1942 at No. 6 and and ex to No.2-4 in the 1950s. The building occupies a corner site at the junction of Birmingham Stree Avenue, with no setback from either street frontage. It comprises a single-storey face brick bu under a sawtooth roof over the northern section and a single-pitch or flat roof over the souther concealed behind high parapet walls.	eet and Gillespie ilding contained				
	The building was designed in the inter-war functionalist style. It exhibits typical features of th modest utilitarian building including the horizontally pronounced wide elevations, simple geo decorative brickwork, curved corners and projecting parapet concealing the roof structure.					
	Walls are constructed of face brick with regularly placed engaged piers, string courses and ded brickwork along the parapet. The Gillespie Street facade is framed by projecting piers at eithe curved corner and western-most bay. The different shade of bricks used for the northern and s the building indicate the two main phases of construction in 1942 (north) and 1952 (southern a entrance on Gillespie Avenue is accentuated by a curved wall recess and curved concrete hood	r end, including the outhern sections of addition). The main				
	Vertically proportioned windows are regularly placed on the lower section of the facades. A lo located on the Birmingham Street elevation.	bading dock is				
	Alterations to the building include the replacement of window frames and glass, modifications and removal of the sawtooth roof over the southern section at No. 2-4.	s to some openings				
	The roof, foundations and floor structures have not been inspected by the authors.					
Physical condition	Category: Individual building. Style: Inter-war functionalist. Storeys: 1. Facade: Face brick. S Face brick.	ide/Rear walls:				
level:						
Physical condition: Archaeological potential level:	Windows have been replaced and some openings modified. Not assessed					
Archaeological potential Detail:						

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Sydney

### Item name: Former Walter Barr Pty Ltd factory including interiors Location: 2-6 Birmingham Street Alexandria 2015 Modification dates: Timeline of known dates for changes to the site: 10 June 1941 Lots 86-90 of the Birmingham Estate DP 19171 transferred to Mabel Agnes Barr, wife of Walter Barr,

30 June 1942 Brick factory and office, concrete floor, corrugated fibro roof located on the site

7 February 1942 Walter Barr Pty Ltd of Gillespie Avenue, advertised for 'plastic moulders for defence work'

12 September 1942 Walter Barr Pty Ltd of Alexandria advertised for girls aged 17 to 19 for 'defence work in modern factory'

#### 1943 Northern part of building shown on aerial photo, with southern part shown as undeveloped land

manufacturer of Sydney

#### 1945

Workplace Survey shows Walter Barr Pty Ltd, Gillespie Avenue, as a plastic moulder, using electrical machinery with 43 horsepower and 53 employees

October 1946 Prospectus issued for International Products Limited

21 November 1946 Property transferred to Walter Barr Pty Ltd

15 December 1949 Southern section of building shown as constructed in aerial photograph

12 December 1952 Application by architect F E Feledy for new building worth £3,000

12 December 1952 Walter Barr proposed to erect an additional building to use as to staff dining room

31 August 1954 James N Kirby Manufacturing Pty Ltd proposed to use the site for toolmaking

March 1955 James N Kirby Manufacturing Pty Ltd proposed to use the site as refrigeration service store and offices

13 March 1963 Application by Holsum Products Pty Ltd to use for manufacturing and packing food and groceries

25 November 1963 Site purchased by Holsum Products Pty Ltd

29 April 1969 Site purchased by Thomas Brown and Sons Ltd

30 June 1969 Site purchased by Accident Insurance Mutual Ltd

SHI number 5062419 Study number

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney

8 May 1972 Alsco Linen Service applids to use as laundry and linen services

3 July 1972 Application by Alsco Linen Service Pty Ltd for additions worth \$8,000

14 July 1972 Alsco Linen Service Pty Ltd purchased the site

30 January 1979 H and C Smash Repairs Pty Ltd applied to use the site for panel beating and spray painting

25 May 1979 Application by Austragroup Industries Pty Ltd for office and warehouse

3 November 1982 Alsco Linen Service Pty Ltd proposed alterations to use as office and warehouse

1 February 1984 C Hayes applied to build additions to the warehouse measuring 95 square metres and worth \$40,000

4 April 1984 Application to use part of premises as a computer room for Australia Uniforms

3 May 1985 C Hayes applied to make alterations worth \$10,000

20 March 1986 Application by Alsco Linen Service Pty Ltd to build an additional staff amenities and a new workshop area in part of the warehouse valued at \$15,000

1998-2003 (approx) Sawtooth roofs over southern section at No. 2-4 replaced by single-pitch or flat roof

Item name:	Former Walter Barr Pty Ltd factory including interiors					
Location:	2-6 Birmingham Street Alexandria 2015	Sydney				
	The two original stages of the building should be	retained and conserved.				
management		ement should be prepared for the building prior to any major				
	All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).					
	Archival and photographic recording, in accorda before major changes.	nce with Heritage Council guidelines, should be undertaken				
	Face brickwork should not be rendered or painte	d.				
	Original openings, high parapet with decorative features should be maintained and conserved.	letailing, curved corners and other original or early building				
	Future development of the site should consider rewith the functionalist building design.	einstating window frames and untinted glass more consistent				
	character as an integral part of the new use. Alter	se and expose its industrial features to retain its former industrial rations for a new use, including changes for compliance with ssential form of the building to remain readily identifiable.				
Management:	Management category Statutory Instrument	Management name List on a Local Environmental Plan (LEP)				
Further comments: Criteria a): [Historical significance]	Inventory sheets are based on information availabuildings. Inventory sheets are constantly update inventory sheet with little information may simp recently: it does not mean that items are not sign preparation of development proposals for heritag Assessments and Conservation Management Pla prior to submitting development applications. Built in 1942 for plastic manufacturers, Walter I development of Alexandria during the mid-twer the Australian manufacturing of plastic products Alexandria, which supported the manufacture of	ensive, and should be regarded as a general guide only. ble, and often do not include the social history of sites and ed by the City as further information becomes available. An y indicate that there has been no building work done to the item ificant. Further research is always recommended as part of e items, and is necessary in preparation of Heritage Impact ns, so that the significance of heritage items can be fully assessed Barr Pty Ltd, this former factory represents the industrial tieth century. It is historically significant for its connection to and as evidence of this formerly widespread industry in "pharmaceuticals, cosmetics and alcohol. The factory represents s of the twentieth century, in particular the growing use of				
	innovations in compression-moulded plastic pro of the twentieth century including meter connec	alian defence forces during World War II. It is also the site of ducts designed and patented by Walter Barr for new appliances tion boxes, ice block trays and water filters. The patented Betts ottles, were one of the products made at this factory to supply				
	The building forms one of a group of modest industrial buildings on Birmingham Street from the inter-war and post-war periods. The age and original use of these buildings reinforce the industrial origin of the street name and twentieth century planning of this street and surrounding locality as the Birmingham of Australia.					
	warehouse buildings of its kind in Australia, wh industrial heartlands in Australia. This collection	art of one of the largest known collections of industrial and ich records City of Sydney's past as one of only two historic n of buildings provides evidence of Australia's twentieth century ydney became one of the largest industrialised cities in the South				

Item na	me: Former Walter Barr Pty	Former Walter Barr Pty Ltd factory including interiors				
Locat	ion: 2-6 Birmingham Street Ale	exandria 2015	Sydney			
[Histor associa	<b>ical</b> supplied the Australian defe <b>tion</b> plastic products at this factor	t associations with the plastic moulding factory ence forces during World War II. Walter Barr d bry for twentieth century technology and applia bottles, amongst other pharmaceutical and cosm	lesigned and patented a number of nces, including the patented Betts			
Criteria [Aesth Techr	number of major factory but for Joseph Lucas, Nuffield ( Zetland on the former Victor engineer was established by known as the Francis E Fele c): The building represents a get etic/ the inter-war functionalist s ical emphasis, high parapet, cur	t in part, is associated with the noted architect I ildings for the car manufacturing industry in so (Australia), Olympic Tyre & Rubber Co and Ja oria Park racecourse. A scholarship to honour F v staff of the British Motor Corporation at the U edy Memorial Prize. ood example of a modest mid-twentieth century style. It features typical characteristics of the sty ved corner element, decorative brickwork and	buthern Sydney, including buildings imes N. Kirby Holdings, all located in feledy's work as an architect and University of Technology Sydney, y factory of Alexandria designed in yle including the dominant horizontal			
significa	The curved building frontag neighbourhood, where it ma	ge and its prominent corner site give the buildir arks the junction of two streets. The building m n Street and Gillespie Avenue, and is visible in	akes an important contribution to the			
Criteria [Social/Cult significa	<ul><li>inter-war and post-war period</li><li>d): Social significance requires</li><li>local neighbourhood may h</li></ul>	a group of surviving modest industrial building ods, which give the street a distinct character. s further study to ascertain its value to commun nave value to residents and workers as a point o ia.	ities. It's landmark qualities in the			
Criteria [Resea significa	irch					
Criteri [Rat	,					
Criteria [Representat	e, e,	ood example of a modest mid-twentieth century, exhibiting typical features of this style.	y factory of Alexandria designed in the			
Intactness/Integ	ity: The building is relatively in	tact externally.				
Referen	ces: Author Dr Terry Kass	<b>Title</b> Industrial and warehouse buildings	s research - site history 2014			

Studies:	Author City Plan Heritage	<b>Title</b> City of Syde	Number ney Industrial & Warehouse Buildings Heritage ?	<b>Year</b> 2014
	The Argus, Melbourne		New Issue by Sydney Plastic Company	1946
	SSMC Heritage Photograp	hic Survey	Brick industrial premises at corner Gillespie Avenue	1977
	Higinbotham & Robinson		Alexandria, Sydney	1890
	Frances Pollon		The book of Sydney suburbs	1996
	Scott Cumming		Chimneys and Change: Post European Environmental Impact i	1 2004
	City of Sydney/ City Build	ling Surveyc	City Building Surveyors Detail Sheets	1956
	RTA		Aerial Photographs of Sydney May-June 1943.	1943
	Dr Terry Kass		Industrial and warehouse buildings research - site history	2014

Page 9 of 20

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location:	2-6	Birmingham Street	Alexandria 2015
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Parcels:	<b>Parcel code</b> LOT	Lot number 89	Section number	<b>Plan code</b> DP	<b>Plan number</b> 19171	
	LOT	88		DP	19171	
Latitude:				Longitude:		
Location validity:			S	Spatial accuracy:		
Map name:				Map scale:		
AMG zone:			Easting:		Northing:	
Listing:			Title		Number	ListingDate
	City of Sydney	Industrial and Ware	Heritage study			

Data entry: Data first entered: 23/07/2014

Data updated: 12/05/2015

Status: Completed

Sydney

SHI number 5062419 Study number

Sydney

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Image:

Caption: Corner and Gillespie Avenue elevations of the former factory

- Copy right: City of Sydney
- Image by: City Plan Heritage
- **Image date:** 29/08/2013

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3451994025db6ec45319da5dfc57b56c251.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3451994025db6ec45319da5dfc57b56c251.jpg

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney



Caption:	Birmingham	Street elevation	at northern	end
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- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a0fc6c2a076348f490d93f337b3640d3.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a0fc6c2a076348f490d93f337b3640d3.JPG

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney



- Caption: South section of Birmingham Street elevation
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34590c5853a50274b58afc85400a26f692b.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34590c5853a50274b58afc85400a26f692b.JPG

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney





- Caption: Detail of building corner
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34562c2f396453a4378a52bd0440c5db7d2.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34562c2f396453a4378a52bd0440c5db7d2.JPG

SHI number 5062419 Study number

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney

Image:



Caption:	1977 phototra	h of the building	showing the	original window frames
Caption.		n or the building	showing the	onginal window names

- Copy right: City of Sydney archives
- Image by: SSMC Heritage Photographic Survey
- **Image date:** 01/01/1977

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34501349e8c4a454261b32bdfe0b6e67535.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34501349e8c4a454261b32bdfe0b6e67535.jpg

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney

Image:	
	ALEXANDRIA The Mult MASCOT.
	BIRMINGHAM ESTATE
	FACTORY - BUSINESS - RESIDENTIAL SITES
	The progress and development of this locality have been most remarkable during the past Rev generation of the expansion of our great Dig and its contral position Dirmingham Estate is wonderfully submitted with Trans. Buses and Dood Roads leading to all Suburbs
	FOR AUCTION SALE ON THE CROUND AT 3 RM. WET OR FINE
	SAT. 8TH DECEMBER 1928
	HARDIE & CORMAN
	C. MONRO LTP:
	DER Despusie, Judence in 20 equal if a for a for a
	quarterly payments, interest 67.
	In nor name state state state
	COLORANGUAN STAT
	Int. Depender, bakance in 20 equal guarrenty payments interess 52.     jit 5     jit 5     jit 5       Int. Annow in 20 equal guarrenty payments interess 52.     jit 5     jit 5     jit 5       Int. Annow in a set of
	N 12 2 2 2 5 6 7 18 0 10 10 10 10 10 10 10 10 10 10 10 10 1
	GARDENERS Re-
	European de sont desent
	JOHN WEINCARTH & SONS
	IN Discovering of the subject to discovered Plan.
	P. Gurwinghams & Co. Litli, Lithia Shileey

- Caption: 1928 subdivision plan of the opposite Birmingham Estate "the hub of industrial activity"
- Copy right: State Library of NSW
- Image by: State Library of NSW, a9617005
- **Image date:** 08/12/1928

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34560f3fdf6110f4e31bd6fb4e8ea2a700b.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34560f3fdf6110f4e31bd6fb4e8ea2a700b.jpg

SHI number 5062419 Study number

Sydney

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Image:

Caption: 1943 aerial photo of the site, showing the northern section constructed

- Copy right: Land & Property Information
- Image by: SIX aerial photo, LPI
- **Image date:** 01/01/1943

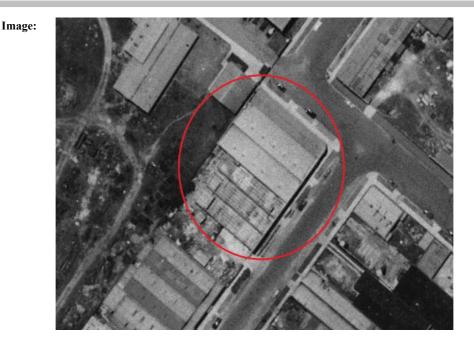
- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345dea7aa3645ad4cffa79fe9b8f63fbb50.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345dea7aa3645ad4cffa79fe9b8f63fbb50.jpg

SHI number 5062419 Study number

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney



Contion	1040 aprial showing	the constructed	southern section	on under ite	original sawtooth roof	
Caption:	1949 aeriai Showing	i ine constructeu	southern section	on under its	Songinal Sawlooth root	

- Copy right: City of Sydney
- Image by: City of Sydney
- **Image date:** 15/12/1949

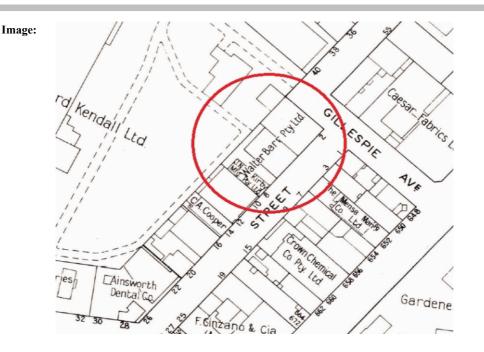
- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345433eba3b69c741ba84c2bd4a9c284180.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345433eba3b69c741ba84c2bd4a9c284180.jpg

SHI number 5062419 Study number

Sydney

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015



Caption: 1956 detail sheet showing the subject site and surrounding industries

- Copy right: City of Sydney archives
- Image by: City of Sydney
- **Image date:** 01/01/1956

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345194a4b1296c345de84beca84030fbeb5.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345194a4b1296c345de84beca84030fbeb5.jpg

SHI number 5062419 Study number

#### Item name: Former Walter Barr Pty Ltd factory including interiors

Location: 2-6 Birmingham Street Alexandria 2015

Sydney

Image:



Caption:	Walter Barr at work in 1958 laying their moulded plastic pipe across Berowra Creek at Berowra Waters
Copy right:	State Library of NSW
Image by:	Jack Hickson (Australian Photographic Agency - 04744)
Image date:	04/02/1958
Image number:	
Image url·	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebA

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3458d613c19249d4332802d4045e124c3ad.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3458d613c19249d4332802d4045e124c3ad.jpg

# Inventory 6

### Item name: Former Sil-Ora Dental Products factory including interiors Location: 22-30 Birmingham Street Alexandria 2015 Sydney Address: 22-30 Birmingham Street Planning: Sydney South Suburb/nearest town: Alexandria 2015 Local govt area: Sydney Parish: Alexandria County: Cumberland State: NSW Other/former names: Ainsworth Dental Company, Ainsworth Consolidated industries Pty Ltd (Aristocrat technologies) **Group ID:** Area/group/complex: Aboriginal area: Eora Curtilage/boundary: As described in Sydney Local Environmental Plan Group: Manufacturing and Processing Category: Other - Manufacturing & Processing Item type: Built Owner: Private - Individual Admin codes: Code 2: Code 3: Current use: Commercial Former uses: Factory, warehouse Assessed significance: Local **Endorsed significance:** Statement of Built in 1945-58 for dental product and poker machine manufacturers, Sil-Ora Dental Products and Ainsworth significance: Dental Company, this former factory represents the industrial development of Alexandria during the mid-twentieth century. The building is historically significant for its connection to the Australian manufacturing of dental products and poker machines from the period when poker machines were first legalised in Australia. The factory represents the development of new technology and products of the twentieth century, in particular for dental products and poker machines. The former factory has significant associations with one of the largest poker machine manufacturers in the world, the Ainsworth Company and its earlier formations from the 1940s-1970s, and consequently the Ainsworth 'gaming machines' sold throughout Australia and exported overseas. With its two main stages of construction from 1945-48 and 1958, the building represents a good example of a modest factory of Alexandria designed in the post-war functionalist style. It features typical architectural elements of this style applied to a utilitarian building, including face brick facades with horizontal projecting brick bands, decorative brickwork, horizontally-proportioned windows, and stepped parapet containing the original signage panel. The irregular building form marks the bend in Birmingham Street and gives the building added prominence in the streetscape similar to a corner building. As such, the building makes an important contribution to the streetscape of Birmingham Street. The building forms one of a group of modest industrial buildings on Birmingham Street from the inter-war and post-war periods, which give the street a distinct character. The age and original use of these buildings reinforce the industrial origin of the street name and twentieth century planning of this street and surrounding locality as the Birmingham of Australia. The factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific. Former Sil-Ora Dental Products factory is of local heritage significance in terms of its historical, aesthetic, and

Former Sil-Ora Dental Products factory is of local heritage significance in terms of its historical, aesthetic, and representative values.

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Sydney

**Historical notes** Early development of the locality: **of provenance:** 

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Gaming machine history:

Because the use of gaming machines was illegal until 1956, the early history of the Australian poker machine industry is shrouded in mystery. In 1941 a police census found hundreds of illegal gaming machines in use in Sydney clubs. The machines were tolerated to such an extent that at least four manufacturers were active in Sydney before 1956.

Nutt & Muddle was the first major Australian manufacturer of gaming machines. In 1936 Roy Nutt, a salesman for Starkey's Soft Drinks and president of the Commercial Travellers Club, purchased about 50 pinball machines and leased them to milk bars and cafes. Nutt formed Nutt & Muddle with his friend Sid Muddle, who made an agreement with the Streets ice cream company to secure contracts with milk bars interested in Streets ice cream and Nutt & Muddle pinballs.

During World War II, Nutt & Muddle acquired and leased further machines, including several which had been confiscated by the NSW police, plus a large number of machines imported by the US Army.

In 1946, Nutt & Muddle manufactured its first 'Jubilee' machine, a copy of the Mills Chrome Bell. By this time the NSW Police was tolerating an increasing number of machines in clubs, while in 1950 Reg Ansett opened the Hayman Island resort which featured a casino. Nutt & Muddle supplied and serviced the casino's poker machines.

Other early poker machine manufactures in Australia included two short-lived companies: Charles Shelley Pty Ltd, which patented and made gaming machines during the 1940s, and became inactive by 1950 and Apex Amusement Company from approximately 1950. The Ainsworth Dental Company (Aristocrat) which began production in about 1952.

Nineteen-fifties gaming machines employed essentially the playing mechanism introduced by the Mills and Jennings companies in approximmately 1930. During the 1960s, electro-mechanical machines appeared, the first major change in the functioning of poker machines since the 1930s. These machines were early examples of the electro-mechanical genre which dominated the industry prior to the introduction of video machines during the 1980s.

During the 1960s the American company Bally introduced the first electro-mechanical machines and promoted these aggressively in Australia. Competition in the industry was intense yet Jubilee and Aristocrat machines remained the most popular machines in Australian clubs. At this time Jubilee held about 45 per cent of the Australian market and was exporting machines to the UK.

In 1980, Aristocrat's Len Ainsworth launched a hostile takeover of Nutt & Muddle. The bid's eventual success in 1985 gave Aristocrat almost 90 per cent of the Australian market. However Ainsworth was arrested by the NSW police and charged with dishonestly conspiring to gain a monopoly of the industry. Federal regulatory authorities also investigated the takeover, which resulted in decades of inconclusive legal battles. The Jubilee name disappeared from clubs after 1985.

(Charles Pickett, Powerhouse Musuem, Poker machine, 'Jubilee', 1970-1980, http://from.ph/377730, accessed 12 May 2015)

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Sydney

Site history:

In 1930 the land between Gillespie Avenue and Ellis Avenue, encompassing Birmingham Street was owned by Cent. Stor. Battery Co. Ltd. before it was subsequently subdivided for the present land parcel occupied by the former factory.

Originally constructed to manufacture dental supplies, from about 1955 this factory manufactured 'gaming machines', more commonly known as poker machines, for the Ainsworth company. These machines were sold throughout Australia and were also exported overseas. Ainsworth became one of the largest poker machine manufacturers in the world.

In 1943, there were no buildings on the site; only air-raid trenches which may have been associated with the Bradford Kendall foundry which extended into lot 76. Bradford Kendall was involved in manufacturing the Australian Cruiser tank for World War II (1943 aerial photo, LPI SIX).

Lots 76 to 79 of the Birmingham Estate were purchased by Harold Hastings Ainsworth, dental surgeon of Bexley on 4 July 1944 (CT 4530 f 49). A covenant on the sale transfer specified that no noxious trade could be conducted on the site (Certificate of Title 5444 f 233).

A factory was under construction on 23 February 1945 when the land was valued (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, no 40).

The 1945 Workplaces survey recorded that Sil-Ora Dental Products located at 22-6 Birmingham Street manufactured 'dental supplies' using electrical machinery with seven and half horsepower. At this time, the factory employed eight workers (SRNSW 7/6847).

The factory was listed as complete by 8 March 1948 (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, no 40). The 1949 aerial photo showed the main building on lots 78 and 79 with a smaller building on lot 77 in the bend in the street.

Harold Hastings Ainsworth died on 25 August 1952. Numerous applications to extend the buildings followed in the 1950s and 1960s. On 27 May 1954, the Ainsworth Dental Company proposed extensions with works valued at £2,000 (22-30 Birmingham St COS Street cards).

On the night of 19 November 1954, a home-made bomb containing sticks of gelignite ignited electrically was thrown onto the roof of Sil-ora Dental Products at Birmingham Street. The bomb only partly exploded according to newspaper reports of the time, causing major damage to the roof. The proprietor then valued the factory and contents at £70,000 (SMH, 20 Nov 1952, p 1).

The company, Ainsworth Investments Pty Ltd was registered on 20 March 1956 (ASIC Company names search, 27 Aug 2014). The factory was purchased by this company on 1 July 1956 (CT 5444 f 233). Leonard Hastings Ainsworth was the effective owner of the property.

In approximately 1955, Leonard Hastings Ainsworth began manufacturing gaming machines (http://www.ainsworth.com.au/about-ainsworth/directors, accessed 27/8/2014). Leonard Hastings Ainsworth founded Aristocrat technologies in 1953, a major poker machine manufacturer.

On 9 January 1958, Ainsworth Dental Company proposed to extend the factory over the whole site. These works were estimated to be worth £30,000 (22-30 Birmingham St COS Street cards).

On 18 February 1960, Ainsworth Consolidated Industries Pty Ltd applied to use the former dental factory for light engineering, presumably to manufacture parts for gaming machines (22-30 Birmingham St COS Street cards).

Item name: Former Sil-Ora Dental Products factory including interiors						
Location:	22-30 Birmingham Street Alexandria 201	5	Sydney			
	On 17 January 1963, Holsum Products applied to use the building for manufacturing and packing groceries and foods (22-30 Birmingham St COS Street cards).					
	Thereafter, the premises was used for a range of different purposes. Notably, on 10 April 1975, Ainsworth Consolidated industries applied to use the site to manufacture, repair and assemble poker machines (22-30 Birmingham St COS Street cards).					
Themes	• National theme 3. Economy	<b>State theme</b> Industry	<b>Local theme</b> Factories			
Designer:	Unknown					
Builder:	Unknown					
Year started:	1945 Year completed:	1958	Circa: Yes			
Physical description:	The building was constructed in 1945-1948 and extended in the 1950s for Sil-Ora Dental Products. It comprises a single storey building constructed of face brick walls, constructed in two sections, contained under sawtooth and gabled roofs.					
	The eastern section dating from 1945-48, is contained under a sawtooth roof with curved corners. The later western dating approximately 1958, follows the bend in the road, is contained under two gabled roofs with raised roof lights. The irregular building form follows and marks the bend in Birmingham Street, reflecting the historic street and subdivision pattern and giving the building added prominence in the streetscape similar to a corner building.					
	The building is designed in the post-war functionalist style. It exhibits typical features of this style applied to a modest utilitarian building including face brick facades with horizontal projecting brick bands, decorative brickwork, horizontally-proportioned windows, and stepped parapet containing the original signage panel. Walls contain horizontally-proportioned, metal-framed windows and original entrances.					
	Changes in the colour of brickwork and other details mark the different stages of the building's construction, as do design details, including the curved corner of the eastern section at the junction with the western extension. A square hood covers the entrance to the western section, while a curved hood shelters the entrance to the earlier eastern section. Both entrances feature stepped recesses. The later western section also incorporates a more decorative stepped profile for its parapet wall and two large vehicle entrances.					
	The small building setback along the south-eastern elevation provides a small area of landscaping, edged by a low bull-nosed brick wall, which reinforces the curved corners of the building.					
	Internally, the roof, foundations and floor structures have not been inspected by the authors.					
Physical condition level:	brick. Good	-war functionalist. Storeys	: 1. Facade: Face brick. Side/rear walls: Face			
Physical condition: Archaeological potential level: Archaeological	Not assessed					
potential Detail:						

Sydney

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

**Modification dates:** Timeline of known dates for changes to the site:

#### 1943

Aerial photo shows no buildings on site, and some trenches likely for the Bradford Kendall foundry to the north

4 July 1944 Transfer of lots 76 to 79 of the Birmingham Estate DP 19171 to Harold Hastings Ainsworth, dental surgeon of Bexley

23 February 1945 Factory under construction on lots 76-79

#### 1945

Workplace Survey records Sil-ora Dental Products at 22-26 Birmingham Street manufactured 'dental supplies' using electrical machinery with seven and half horsepower and had eight employees

#### 8 March 1948 Factory complete

#### 1949

Aerial photo shows main building on lots 78 and 79 with a smaller earlier building on lot 77 on the bend in the street

7 July 1953 Application by L H Ainsworth for laboratory and store worth £150

8 July 1953 Application by L H Ainsworth for Sil-ora Dental Products to erect new laboratory and store

27 May 1954 DA by Ainsworth Dental Company for extension to factory worth £2,000

19 November 1954 Home-made bomb destroys the roof

19 September 1955 Application by Ainsworth Dental Company for steel shelter to factory worth £100

1955 (circa) Leonard Hastings Ainsworth commenced manufacturing gaming machines on this site

31 January 1956 Application by Ainsworth Dental Company to extend the factory

9 February 1956 After death of Harold Hastings Ainsworth, property passed to Karl Ainsworth Hohnen, Lindfield, bank officer and Phyllis Elizabeth Vinson, wife of Samuel John Vinson, carrier of Coogee

20 March 1956 Ainsworth Investments Pty Ltd registered

1 July 1956 Property purchased by Ainsworth Investments Pty Ltd

### Item name: Former Sil-Ora Dental Products factory including interiors Location: 22-30 Birmingham Street Alexandria 2015 Sydney 9 January 1958 Application by Ainsworth Dental Company for extension of factory over whole site worth £30,000 7 April 1960 Ainsworth Dental Co Pty Ltd erected temporary office without approval 18 February 1960 Ainsworth Consolidated industries Pty Ltd applied to use the building for light engineering 17 January 1963 Application by Holsum Products to use the building for manufacturing and packing groceries and foods 2 August 1963 Application by Henry Berry and Company (Australasia) Ltd for alterations worth £2,000 8 August 1963 Leased to Henry Berry and Company (Australasia) Ltd 3 July 1963 Application by Henry Berry and Company (Australasia) Ltd to use the building as a warehouse 10 April 1975 Application by Ainsworth Consolidated industries to use the building to manufacture, repair and assemble poker machines 23 June 1980 Application by Mirko Standjevic to use the building as a warehouse to store secondhand clothing and rags 20 July 1984 Application to use the building as a warehouse to store greeting cards Recommended The building should be retained and conserved. management: A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken. All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter). Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes. Face brick finishes should not be painted or rendered. Original or early metal-framed windows, decorative relief brickwork, parapet wall, entrance surrounds, signage panel and other original or early building features from the two stages of construction should be maintained and conserved. Consider new uses for the building that will re-use and expose its industrial features to retain its former industrial character as an integral part of the new use. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable. Management: Management category Management name Statutory Instrument List on a Local Environmental Plan (LEP)

Item name:	E: Former Sil-Ora Dental Products factory including interiors					
Location:	22-30 Birmingham Street Alexandria 2015	Sydney				
Further comments: Criteria a): [Historical significance]	Heritage Inventory sheets are often not comprehensive, and should be regarded as Inventory sheets are based on information available, and often do not include the si- buildings. Inventory sheets are constantly updated by the City as further informati- inventory sheet with little information may simply indicate that there has been no be recently: it does not mean that items are not significant. Further research is always preparation of development proposals for heritage items, and is necessary in prepar- Assessments and Conservation Management Plans, so that the significance of herita- prior to submitting development applications. Built in 1945-58 for dental product and poker machine manufacturers, Sil-Ora De- Dental Company, this former factory represents the industrial development of Ale mid-twentieth century. The building is historically significant for its connection to of dental products and poker machines from the period when poker machines were The factory represents the development of new technology and products of the two for dental products and poker machines.	ocial history of sites and on becomes available. An puilding work done to the item is recommended as part of ration of Heritage Impact tage items can be fully assessed ntal Products and Ainsworth xandria during the o the Australian manufacturing e first legalised in Australia.				
	The building forms one of a group of modest industrial buildings on Birmingham post-war period. The age and original use of these buildings reinforce the industria twentieth century planning of this street and surrounding locality as the Birmingha	al origin of the street name and				
-	The factory forms part of one of the largest known collections of industrial and wa in Australia, which records City of Sydney's past as one of only two historic indus This collection of buildings provides evidence of Australia's twentieth century tra industrialisation when Sydney became one of the largest industrialised cities in the The former factory has significant associations with one of the largest poker mach world, the Ainsworth Company and its earlier formations from the 1940s-1970s, a Ainsworth 'gaming machines' sold throughout Australia and exported overseas.	strial heartlands in Australia. nsformation through e South Pacific. ine manufacturers in the				
[Aesthetic/ Technical	With its two main stages of construction from 1945-48 and 1958, the building reprint modest factory of Alexandria designed in the post-war functionalist style. It feature elements of this style applied to a utilitarian building, including face brick facades brick bands, decorative brickwork, horizontally-proportioned windows and steppe	es typical architectural with horizontal projecting				
	The irregular building form marks the bend in Birmingham Street and gives the but the streetscape similar to a corner building. As such, the building makes an import streetscape of Birmingham Street.					
Criteria d): [Social/Cultural significance]	The building forms one of a group of modest industrial buildings on Birmingham is post-war periods, which give the street a distinct character. The age and original us the industrial origin of the street name and twentieth century planning of this street the Birmingham of Australia. Social significance requires further study to ascertain its value to communities. The the community of former workers from Sil-Ora Dental Products and the Ainswort	se of these buildings reinforce t and surrounding locality as ne building may have value to				
Criteria e): [Research significance]						
Criteria f): [Rarity]						

Date: 24/09/2015 Full report
This report was produced using the State Heritage Inventory application provided by the Heritage Division, Office of Environment and Heritage

Item name:	Former Sil-Ora Dental Products factory including interiors					
Location:	22-30 Birmingham Street Alexandria 2015				Sydney	
Criteria g): [Representative]	22-30 Birmingham Street is a representative example of a modest post-war functionalist style factories featuring typical architectural elements of the style.					
Intactness/Integrity:	The building represents one of a group of modest industrial buildings on Birmingham Street from the inter-war and post-war periods. Intact externally.					
References:	Dr Terry Kass		Title Industrial and warehouse buildings research - site history			<b>Year</b> 2014
		irator, Powerhouse	Poker machine, 'Jubi		-	
	RTA City of Sydney		Aerial Survey of the	of Sydney May-June 19	143.	1943 1949
		ty Building Survey	2			1949
	Scott Cumming	ty Dunning Survey	City Building Surveyors Detail Sheets Chimneys and Change: Post European Environmental Impac			
	Frances Pollon		The book of Sydney		1996	
	Higinbotham & Ro	binson	Alexandria, Sydney			1890
Studies:	Author	Title			Number	Year
Studies	City Plan Heritage		lney Industrial & Ware	ehouse Buildings Herit		2014
Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number	
Latitude:				Longitude:		
Location validity:				Spatial accuracy:		
Map name:				Map scale:		
AMG zone:			Easting:		Northing:	
Listing:		T ustrial and Ware H	T <b>itle</b> Ieritage study		Number	ListingDate
Data entry:	Data first entered:	05/08/2014	Data updated:	12/05/2015	Status	: Completed

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Sydney



- Caption: South-eastern elevation showing the entrance and stepped parapet of western section
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3450398a20774ce4530aecdfdbdaeb188ac.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3450398a20774ce4530aecdfdbdaeb188ac.JPG

SHI number 5062438 Study number

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Sydney



Caption:	Southern and part of south-eastern elevations on the bend of Birmingham Street
Copy right:	City of Sydney
Image by:	Claudine Loffi
Image date:	05/03/2014
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3453c2546ed8f83498f9e857ce0209af8f2.JPG
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test3453c2546ed8f83498f9e857ce0209af8f2.JPG

SHI number 5062438 Study number

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Sydney



- Caption: Junction between eastern (right) and western sections (left) and entrance on south-eastern elevation
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34548ff7788d5eb41c5b8d80231cec30011.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34548ff7788d5eb41c5b8d80231cec30011.JPG

SHI number 5062438 Study number

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Sydney



Birmingham Stree	÷
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- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34545c94248dd51411fba8a62b120512fb9.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34545c94248dd51411fba8a62b120512fb9.JPG

SHI number 5062438 Study number

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Sydney



- Caption: Curved detail of the north-eastern corner at the eastern end of the building on Birmingham Street
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a8cfac0d6f9a4fc6977fa1dd14890fba.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a8cfac0d6f9a4fc6977fa1dd14890fba.JPG

SHI number 5062438 Study number

Sydney

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Image:

Caption: 1943 aerial showing the subject site vacant at this time with World War II trenches

- Copy right: NSW Land and Property Information, SIX
- Image by: SIX aerial photo, LPI
- **Image date:** 01/01/1943

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3452461c8e3281a4b6995769f5c3b870dc5.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3452461c8e3281a4b6995769f5c3b870dc5.jpg

SHI number 5062438 Study number

Sydney

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Image:

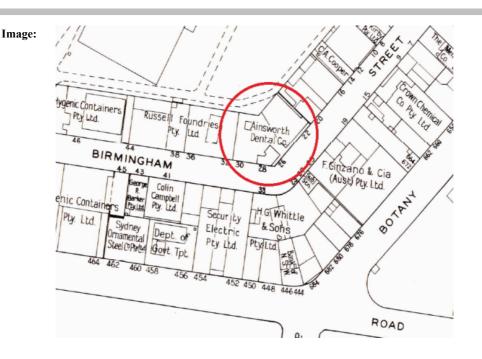
- Caption: 1949 aerial showing the constructed eastern building and before the western stage was constucted
- Copy right: City of Sydney
- Image by: City of Sydney
- **Image date:** 15/12/1949

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3455531a3aa7e5b449abc9bcc3b04d873ba.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3455531a3aa7e5b449abc9bcc3b04d873ba.jpg

#### Item name: Former Sil-Ora Dental Products factory including interiors

Location: 22-30 Birmingham Street Alexandria 2015

Sydney



Caption: 1956 detail sheet showing the subject building and surrounding industries

Copy right: City of Sydney Archives

Image by: City Building Surveyors Department, City of Sydney

**Image date:** 01/01/1956

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345187f08047d0742d5b9c997eaacd854e6.png
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345187f08047d0742d5b9c997eaacd854e6.png



Item name: Electricity Substation No. 375 including interiors					
Location: 2	27 Birmingham Street Alexand	ria 2015			Sydney
Address:	27 Birmingham Street			Planning:	Sydney South
Suburb/nearest town:	Alexandria 2015				
Local govt area: State: Other/former names:					Alexandria Cumberland
Area/group/complex:				Group	ID:
Aboriginal area:	Eora				
Curtilage/boundary:	As described in Sydney Local I	Environme	ental Plan		
Item type:	Built	Group:	Utilities - Electricity	Category: Electr	icity Transformer/Substation
Owner:	State Government				
Admin codes:		Code 2:		Code 3:	
Current use:	Electricity substation				
Former uses:	Electricity substation				
Assessed significance:	Local		Endo	orsed significance:	

#### Item name: Electricity Substation No. 375 including interiors

Location: 27 Birmingham Street Alexandria 2015

Sydney

Statement ofBuilt in 1932, Electricity Substation No. 375 represents a surviving example of the original network of moresignificance:than 360 substations built by Sydney Municipal Council from 1904 to 1936, which first supplied electricity to<br/>Sydney's industries and houses. The period and location of the substation records the expansion of Sydney's<br/>electricity network and the growth of electricity use in Alexandria. The building also marks the major changes<br/>electricity brought for Alexandria's growth, development and population.

Aesthetically, the building demonstrates the characteristic modest form, quality of design and construction for Sydney's substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.

Electricity Substation No.375 represents a good example of an unusually well-detailed, purpose-designed and built substation from the inter-war period. It demonstrates typical characteristics of the Art Deco style applied to a utilitarian building including the heavy geometric massing, roof form concealed behind a parapet wall, contrasting decorative face brickwork, simple surfaces, stepped skyline, emphatic entrance, stepped ornamental brickwork surrounding the entrance and string courses along the parapet wall. The building contributes to the streetscape and is a significant example of civic architecture in the area.

The substation also represents an early surviving example of the industrial development of Birmingham Street built shortly after the land was subdivided, which pre-dates the buildings on the opposite side of the street. The building forms one of a group of surviving modest industrial buildings on Birmingham Street from the inter-war and post-war periods, which give the street a distinct character. The age and original use of these buildings reinforce the industrial origin of the street name and twentieth century planning of this street and surrounding locality as the Birmingham of Australia.

Electricity Substation No. 375 forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Electricity Substation No. 375 and the other surviving substations demonstrate the fundamental role that electricity played in powering Australia's industrialisation and how technological innovations of the time, specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks mark the location of factories predating electricity.

The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's Birmingham Road was almost exclusively occupied by industries from the inter-war and post-war periods.

Electricity Substation No.375 is of local heritage significance in terms of its historical, aesthetic and representative values.

#### Item name: Electricity Substation No. 375 including interiors

Location: 27 Birmingham Street Alexandria 2015

Sydney

**Historical notes** Early development of the locality: **of provenance:** 

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

#### Item name: Electricity Substation No. 375 including interiors

Location: 27 Birmingham Street Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Substations history:

One of the major innovations in industry during the nineteenth century was the development of electricity as a power and lighting source, which rivalled and then replaced water and steam power. The mills and workshops of the earlier Industrial Revolution in Britain and North America were mainly water and steam powered, whereas Australia's twentieth century industrial buildings were powered by electricity.

As part of supplying electricity to Sydney's houses and industries for the first time, Sydney Council built Sydney's first power stations and substations during the first half of the twentieth century. Sydney Council, then known as Sydney Municipal Council or the Municipal Council of Sydney, was charged with supplying electricity to Sydney city and surrounding areas in 1896 through the law named the Municipal Council of Sydney Electric Lighting Bill passed on 16th October 1896. Electricity supply was managed through the council's department known by a number of names: the Electric Lighting Committee, the Electric Light Department and the Electricity Department from 1920 to 1935. From 1936 the electricity undertaking was named Sydney County Council when it was reformed as a separate authority as a result of the Gas & Electricity Act of 1935. The various names for the council and subsequent electrical authority are recorded in the initials and building names inscribed in substation facades.

Sydney's first power station at Pyrmont began operating in 1904. The large network of substations were constructed in strategic locations to supply power from these power stations to individual customers and other electricity networks. Their specific purpose was to house machinery to convert high voltage electricity for industrial or domestic use. Substations were often erected in close proximity to factories to service their high energy demands. Consequently the number, concentration and location of substations provide markers of twentieth-century factories and industrial centres in the way that chimney stacks marked factories pre-dating electricity.

Alexandria demonstrates this pattern with its larger number of substations reflecting its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's Birmingham Street was almost exclusively occupied by industries from the inter-war and post-war periods.

The period and location of surviving substations record the progressive extension of Sydney's electrical network from the centre of Sydney to surrounding areas, the scale and importance of this network, and the fundamental changes electricity brought for Sydney's growth, development and society. Sydney Municipal Council built its first substations at Town Hall, Taylor Square, Woolloomooloo and Ultimo, followed by Glebe, Newtown, Camperdown and surrounding areas. From 1904 to 1935, Sydney Council built more than 360 substations and almost 400 pole transformers throughout Sydney and surrounding suburbs. More continued to be built in the following decades. The Energy Australia (AusGrid) heritage and conservation register records that 33 of the surviving substations are located within the City of Sydney. This number excludes those no longer owned or operated by the electricity supplier.

Each substation has its own number inscribed on the building facade, which reflects its role in the broader electrical network and generally the total number, sequence and period of construction, with some exceptions where disused numbers were reallocated. Most substations were constructed in established urban areas on a small portion of land acquired or subdivided specifically for this purpose. These buildings, while modest in scale and different in function to surrounding buildings, were designed and constructed to a good standard, in a style

#### Item name: Electricity Substation No. 375 including interiors

Location: 27 Birmingham Street Alexandria 2015

Sydney

designed to harmonise with surrounding architecture, in order to reduce community fears or resistance to the incursion of this new technology and impacts on the appearance of streets.

The rise of electricity during the late nineteenth century, and in particular small motors for driving machinery and electrical lights, changed the configuration of industrial buildings and machinery. Electricity meant that factories could be designed with a more flexible layout because small electric motors eliminated the need for belt and shaft drives from the steam plant. Factory building design became less reliant on windows for natural light and gas lighting ventilation because of the advent of electric lighting. Electricity also created a new market for factories to produce the new consumer goods reliant on electric power, such as fridges, washing machines, telephones, stoves, ice cream, and the engineering for electric lights, trains and trams.

Site history:

The Birmingham Street substation was purpose-designed and built in 1932 by the Municipal Council of Sydney. This formed part of rapid expansion of the electricity network into Sydney's suburbs during the 1920s and early 1930s.

The eastern side of Birmingham Street began was subdivided in 1928 and 1935.

By late 1929, Sydney Municipal Council was seeking land for a new substation in the vicinity of Birmingham Street due to the increasing demand for electricity in the area. The existing pole transformer in Ellis Avenue, near Gardeners Road, by this time was at capacity and the Century Battery Co had applied for additional load at its works on Gardeners Road, west of Ellis Avenue.

Sydney Municipal Council purchased a vacant property in Birmingham Avenue for this new substation in July 1931. Sydney Municipal Council also decided to purchase a 1.2 metre wide strip of land from the owner of the property to the rear of the substation site (fronting Botany Road) in order to allow for cables to be laid between the substation and Botany Road. A price for the cable route was negotiated with the owners.

One of the adjacent properties owned by Italian vermouth-maker Francesco Cinzano & Co, mistakenly built their new factory on part of the then proposed substation site. The encroachment was sufficient to prevent the erection of the substation building to the previously prepared design. The company arranged to exchange their land with Sydney Municipal Council and the substation site and cable route were shifted further south to the next allotment. It appears that the new site and cable route were made available to the Sydney Municipal Council in January 1932.

Work on the site was programmed to start before the end of the month and to be complete within ten weeks. The official installation date is recorded as 27 April 1932, although this may have been when the building was handed over to the Electrical Department for equipping. The substation may have begun active service later in that year, or as late as January 1933.

In 1938, council sold approximately 200 square metres of land behind the substation building. Only the cable route and sufficient land to allow access from Botany Road was retained.

In subsequent years, the cable route became an open public passageway, allowing access between Birmingham Street and Botany Road. In 1967, the Council decided to close the passageway. One particular company in Birmingham Street asked that the passageway be kept open to allow access for its employees. However, the company relocated the following year and the matter was resolved.

Themes:	<b>National theme</b> 4. Settlement		<b>State theme</b> Utilities	Local theme Electricity Substation
Designer:	Sydney Municipal Co	uncil		
<b>Builder:</b>	Sydney Municipal Co	uncil		
ear started:	1932	Year completed:	1932	Circa: Yes

Date: 24/09/2015

Yea

2015 Full report
This report was produced using the State Heritage Inventory application provided by the Heritage Division, Office of Environment and Heritage

### Item name: Electricity Substation No. 375 including interiors Location: 27 Birmingham Street Alexandria 2015 Sydney Physical description: Substation No. 375 was built by Sydney Municipal Council in 1932. The substation comprises a single-storey face brick building contained under a gabled roof concealed behind a high parapet wall. The facade wall is stepped down in height along the street frontage to form the fence and entrance to the side transformer yard. The building is designed in the inter-war Art Deco style. It exhibits typical characteristics of the Art Deco style applied to a utilitarian building including the heavy geometric massing, contrasting decorative face brickwork, simple surfaces, stepped skyline, emphatic entrance with bullnosed brick fin projecting vertically above the parapet, stepped ornamental brickwork surrounding the entrance, and string courses along the parapet wall. The centrally placed main entrance contains a steel roller shutter door with an inset smaller personnel door. A vertically proportioned door is located adjacent to the main entrance. Both openings have square brick-on-edge lintels and a threshold raised a step above street level. The site includes a strip of land accessing Botany Road, originally for extending cabling to the main road. Internally, the roof, foundations and floor structures have not been inspected by the authors. Category: Individual building. Style: Inter-war Art Deco. Storeys: 1. Facade: Face brick. Side/Rear walls: Face brick. Physical condition Good level: **Physical condition:** Archaeological Not assessed potential level: Archaeological potential Detail: Modification dates: Roof sheeting, original ventilator, gutters and downpipes, arch bars and roller door have been replaced. Colourbond fence to transformer yard was installed. Recommended The substation should be retained and conserved. management: A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken. All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter). Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes. Do not paint or seal face-brick walls. No vertical additions should be made to the building. Original building features should be maintained and conserved. New uses for the building are to complement and enhance the internal and external character of the building by conserving and interpreting significant fabric and spatial qualities. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable. Management: Management category Management name

Statutory Instrument

List on a Local Environmental Plan (LEP)

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Location: 27 Birmingham Street Alexandria 2015

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Further comments:	Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only. Inventory sheets are based on information available, and often do not include the social history of sites and
	buildings. Inventory sheets are constantly updated by the City as further information becomes available. An
	inventory sheet with little information may simply indicate that there has been no building work done to the item
	recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact
	Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed
	prior to submitting development applications.
Criteria a):	Built in 1932, Electricity Substation No. 375 represents a surviving example of the original network of more
[Historical	than 360 substations built by Sydney Municipal Council from 1904 to 1936, which first supplied electricity to
significance]	Sydney's industries and houses. The period and location of the substation records the expansion of Sydney's
	electricity network and the growth of electricity use in Alexandria. The building also marks the major changes electricity brought for Alexandria's growth, development and population.
	electricity brought for Alexandria's growth, development and population.
	The substation also represents an early surviving example of the industrial development of Birmingham Street
	built shortly after the land was subdivided, which pre-dates the buildings on the opposite side of the street. The
	building forms one of a group of surviving modest industrial buildings on Birmingham Street from the inter-war
	and post-war periods, which give the street a distinct character. The age and original use of these buildings reinforce the industrial origin of the street name and twentieth century planning of this street and surrounding
	locality as the Birmingham of Australia.
	Electricity Substation No. 375 forms part of one of the largest known collections of industrial and warehouse
	buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial
	heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century
	transformation through industrialisation when Sydney became one of the largest industrialised cities in the South
	Pacific.
	Electricity Substation No. 375 and the other surviving substations demonstrate the fundamental role that
	electricity played in powering Australia's industrialisation and how technological innovations of the time,
	specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed
	to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks
	mark the location of factories predating electricity.
	The large number of endertations in Alexandria demonstrates its birthman and union industrial and months.
	The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying
	electricity. Alexandria's Birmingham Road was almost exclusively occupied by industries from the inter-war
	and post-war periods.
Criteria b):	The substation has significant associations with the Municipal Council of Sydney, who constructed the building
	as part of its early twentieth-century responsibility for the generation and distribution of electricity throughout the greater Sydney area from 1904 until 1936.
significance]	the greater sydney area noni 1904 until 1950.
Criteria c):	The building demonstrates the characteristic modest form, quality of design and construction for Sydney's
[Aesthetic/ Technical	substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.
significance]	then established urban contexts by reneeting neighbouring architecture of popular styles of the time.
S-ge	Electricity Substation No.375 represents a good example of an unusually well-detailed, purpose-designed and
	built substation from the inter-war period. It demonstrates typical characteristics of the Art Deco style applied
	to a utilitarian building including the heavy geometric massing, roof form concealed behind a parapet wall,
	contrasting decorative face brickwork, simple surfaces, stepped skyline, emphatic entrance, stepped ornamental brickwork surrounding the entrance and string courses along the parapet wall.
	brokwork surrounding the entrance and suring courses along the parapet wan.
	The building contributes to the streetscape and is a significant example of civic architecture in the area.

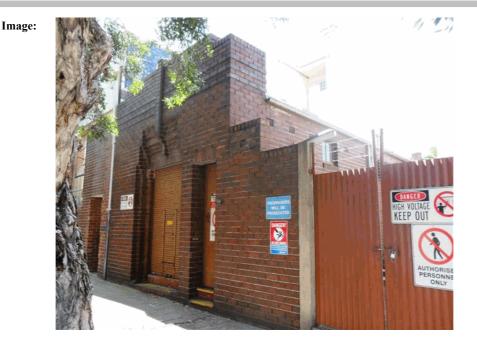
	Item name:	Electricity Subst	ation No. 375 inc	eluding interiors			
	Location:	27 Birmingham St	reet Alexandria 20	15		Sydney	
	Criteria d): [Social/Cultural significance]	Social significance requires further study to ascertain its value to communities. The building may have value to community members with an interest in the history, buildings and technology for Sydney's electrification.					
	Criteria e): [Research significance]		offer research poten n for substations in		of technology for electri	city supply and	
	Criteria f): [Rarity]						
	Criteria g): [Representative]	The building repre	sents a good examp	le of a substation from	the inter-war period uti	lising the Art Decc	style.
	[Kepi esentative]	The substation forms part of a collection of extant substations, which together represent the growth of Sydney's electrical network and the major change that electricity brought for Sydney's growth, development and population during the twentieth century, in particular for the development of industry.				Sydney's	
1	I	current Energy Au located in the City supplier.	stralia (AusGrid) he	eritage and conservation	ncil from 1904 to 1930 i n register records that 3 o longer owned or opera	3 surviving substat	ions are
]	Intactness/Integrity:	Intact externally					
	References:	Author James Pennington Wilkenfeld and Spo	earitt	<b>Title</b> Electricity Substation Electrifying Sydney	s of the Sydney Munici	pal Council, p.169	<b>Year</b> 2012 2004
		Scott Cumming			e: Post European Envir	onmental Impact in	
		Frances Pollon		The book of Sydney			1996
		Higinbotham & Ro	binson	Alexandria, Sydney			1890
		Higinbotham & Ro	binson	Waterloo, Sydney			1890
		Schwager Brooks a	and Partners Pty Ltd	Energy Australia (Au	sgrid) section 170 herit	age and conservati	2007
		TZG Architects and	d Orwell & Peter Pl	Conservation Manage	ement Plan: Substation	No. 6 and Undergr	2002
	Studies:	Author City Plan Heritage	Title City of Syc	lney Industrial & Ware	house Buildings Herita	Number ge {	<b>Year</b> 2014
	Parcels:	<b>Parcel code</b> LOT	Lot number 2	Section number	<b>Plan code</b> DP	<b>Plan number</b> 456890	
	Latitude:				Longitude:		
	Location validity:				Spatial accuracy:		
	Map name:				Map scale:		
	AMG zone:			Easting:		Northing:	
	Listing:	Name Substation No.375 City of Sydney Ind	Н		W State agency heritage		<b>ListingDate</b> 01/11/1994
	Data entry:	Data first entered:		Data updated:	14/05/2015	Status	Completed

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#### Item name: Electricity Substation No. 375 including interiors

Location: 27 Birmingham Street Alexandria 2015

Sydney



Continue	North wootorn	(frant) and	l aguth wastarn (ai	de) elevetione	of the building
Caption:	North-western	(IIOIIL) and	l south-western (si	ue) elevations	

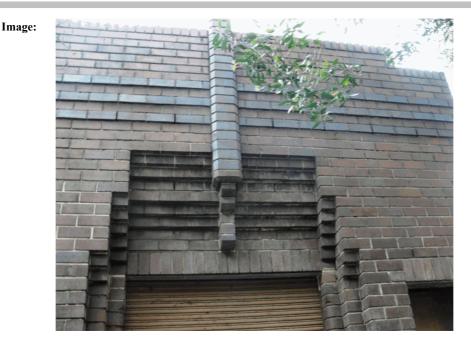
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34511321bcb9c654543a9d052c385e9c6db.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34511321bcb9c654543a9d052c385e9c6db.JPG

#### Item name: Electricity Substation No. 375 including interiors

Location: 27 Birmingham Street Alexandria 2015

Sydney



Caption:	Detail of main entrance showing stepped brickwork and parapet detailing
Copy right:	City of Sydney
Image by:	City Plan Heritage and JCIS Consultants
Image date:	20/09/2013
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34540c502d04b3741e3a2dd60ada2df2083.jpg

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Item name: Electricity Substation No. 375 including interiors

Location: 27 Birmingham Street Alexandria 2015

Sydney



Caption:	Front and side elevations of the building in the late 1930s

Copy right: A	lusgrid
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Image by: Ausgrid

Image date:

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a1f22c4f41f04a29835638aacb156217.jpg
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Sydney

ALEXANDRIA The Hub MASCOT.
BIRMINGHAM ESTATE
FACTORY - BUSINESS - RESIDENTIAL SITES
The progress and development of this locality have been most remarkable during the past few passwowing to the expansion of our great Day, and its central position Birmingham Estate is wooderfully seturated with Frans Buses and Cool Roads leading to all Suburbs
FOR AUCTION SALE ON THE CROUND AT 3 RM. WET OR FINE
SAT. 8TH DECEMBER 1928
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COLLINS & MULHOLLAND M Biomedice at an adjust to Dynamic Acts. "Theodory of States"
P. Currenghame & Co. Ltd., Litho, Sydney

Caption: 1928 subdivision plan of the Birmingham Estate "the hub of industrial activity"

Copy right:	State Library	of NSW
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- Image by: State Library of NSW
- **Image date:** 08/12/1928

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345ebd61aa7c483423b96e53788241b0a0f.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345ebd61aa7c483423b96e53788241b0a0f.jpg



Item name: Electricity Substation No. 375 including interiors

Location: 27 Birmingham Street Alexandria 2015

Sydney

Image:	
	ALEXANDRIA
	Part of
	BIRMINGHAM
	ESTATE 20 Factory or Commercial Sites
	Auction Sale on the Ground SATURDAY
	HARDIE 19"JANUARY 1935
	CORMAN PTYLTD. AT 3 P.M.
	Auctioneers 36 Martin Place Sydney in conjunction with
	W.E.SHARPERC?
	TORRENS TITLE
	10 per cent Deposit, Balance in la equal Duarterty Represent
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	CARDENERS ROAD
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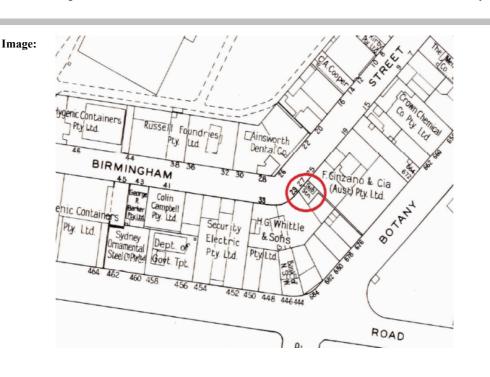
- Caption: 1935 subdivision plan of Birmingham Estate shortly after the substation was built
- Copy right: State Library of NSW
- Image by: State Library of NSW
- **Image date:** 19/01/1935

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3456956f52676ad4023ab48e3c4291f09d7.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3456956f52676ad4023ab48e3c4291f09d7.jpg

Sydney

#### Item name: Electricity Substation No. 375 including interiors

Location: 27 Birmingham Street Alexandria 2015



Caption: 1956 detail sheet showing subject substation and surrounding industries

Copy right: City of Sydney archives

- Image by: City of Sydney
- **Image date:** 01/01/1956

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3455a7530a730c04fe1af45c11ca24767ae.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3455a7530a730c04fe1af45c11ca24767ae.jpg

# Inventory 8

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 2	29-33 Birmingham Street Alex	andria 201	5		Sydney
Address:	29-33 Birmingham Street			Planning:	Sydney South
Suburb/nearest town:	Alexandria 2015				
Local govt area: State: Other/former names:		ises			Alexandria Cumberland
Area/group/complex:				Group	) ID:
Aboriginal area:	Eora				
Curtilage/boundary:	As described in Sydney Local	Environme	ental Plan		
Item type:	Built	Group:	Manufacturing and Processing	Category: Other	- Manufacturing & Processing
Owner:	Private - Individual				
Admin codes:		Code 2:		Code 3:	
Current use:	Warehouse and office				
Former uses:	Factory (joinery works), wareh	nouse and o	office		
Assessed significance:	Local		Endorsed si	gnificance:	

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

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Statement of Built in 1935-42 for the prominent building firm, H. G. Whittle & Sons, this factory represents the industrial significance: development of Alexandria during the early to mid-twentieth century. It is historically significant for its connection to the Australian manufacture of building supplies during the inter-war and post-war years.

The building has significant associations with the prominent building firm of H. G. Whittle & Sons from the 1930s to the 1950s and the major Sydney and Melbourne buildings this firm constructed during this period. These included the Transport Building on Macquarie and Phillip Streets, additions to Sydney's General Post Office, additions to Royal Prince Alfred Hospital, work on the Dental Hospital in Chalmers Street and the new Technical College at Ultimo.

The building represents a good example of a modest inter-war factory of Alexandria designed in the inter-war functionalist style. It demonstrates typical features of this style including heavy masonry construction, face brickwork, simple geometric building forms, high parapet wall concealing the roof form, restrained ornament through relief brickwork, quoins and vertically-proportioned timber windows. The building also represents the typical industrial building typology of this period where the administration and manufacturing functions are contained in different building forms, with the attached office distinguished by a frame of brick quoins, different openings and the stepped height of the parapet wall.

With its curved façade marking the bend in Birmingham Street, the building is a distinctive feature in the streetscape, which is visible from a number of near and distant vantage points. The inverted curved building frontage is a rare building form for inter-war factories within the Alexandria locality.

The H. G. Whittle & Sons factory represents an early surviving example of the industrial development of Birmingham Street built shortly after the land was subdivided, which pre-dates the factories on the opposite side of the street. The building forms one of a group of surviving modest industrial buildings on Birmingham Street from the inter-war and post-war periods, which give the street a distinct character. The age and original use of these buildings reinforce the industrial origin of the street name and twentieth century planning of this street and surrounding locality as the Birmingham of Australia.

The factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former H. G. Whittle & Sons factory is of local heritage significance in terms of its historical, aesthetic and representative significance, its associations and rarity in the locality.

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

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**Historical notes** Early development of the locality: **of provenance:** 

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

#### Item name: Former H. G. Whittle & Sons factory including interiors

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were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Site history:

The building was constructed in 1935 as a workshop, factory and office by Harry Gladstone Whittle from the prominent building firm of H G Whittle and Sons Pty Ltd. This firm constructed a number of major buildings in Sydney and Canberra in the 1930s and 1940s. Whittle used this building as a joinery works and for the storage of tools and supplies.

In 1930, the land between Gillespie Avenue and Ellis Avenue, encompassing Birmingham Street was owned by Cent. Stor. Battery Co. Ltd. In 1935, the land that is now 29-39 Birmingham Street was advertised for sale.

Harry Gladstone Whittle purchased lots 46, 47 and 48 in May and October 1935, but the transfers were not registered until some months later (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8588, no 36-8; Certificate of Title 4764 f 88; CT 4832 f 176 and CT 4984 f 155). The sale of the land prohibited the development of noxious trades on these sites.

By 1935, the land valuation for the subject lots 46-48 (29-33 Birmingham Street) on 16 December recorded that Harry Gladstone Whittle had built a brick workshop, office and factory with an iron roof (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, no 32). It is likely that Whittle constructed the buildings himself.

The site expanded when Whittle purchased the adjacent lot 49 in April 1936 (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8588, no 33).

H G Whittle and Sons Pty Ltd worked on major projects in the late 1930s such as the Transport Building at Macquarie and Phillip Streets, additions to Royal Prince Alfred Hospita, work on the Dental Hospital in Chalmers Street and a new Technical College in Ultimo (SMH 3 Dec 1935, p 3; 20 Oct 1936, p 3; 2 May 1939, p 9). In the Australian Capital Territory, the firm built Canberra High School and 32 modern flats between the fire station and Hotel Wellington (Canberra Times, 30 March 1938, p 6; 7 March 1939, p 2). During the 1940s, the firm also constructed additions to Sydney's General Post Office (Daily Mercury, 6 December 1939, p 8).

By June 1942, additions had been made to the Birmingham Street factory when the whole site included lots 46-49 (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, no 32). These likely included the second-storey setback addition to the western office.

The 1945 Workplace Survey recorded that H G Whittle of Birmingham Street conducted a joinery works, using electrical machinery with 95 1/3 horsepower. The joinery works then employed 9 workers (SRNSW 7/6847).

The 1949 aerial photograph recorded the constructed factory at this time located on lots 46 and 47, and the sheds and a builder's yard which occupied lots 48-49 (1949 Aerial photograph AO 130, NSCA).

In 1954, ownership of the joinery works was transferred to William Richard Percy Fleming of Kingsford, company director.

On 31 May 1967, the site was purchased by Cyclamen Pty Ltd (Certificate of Title 4764 f 88; CT 4832 f 176 and CT 4984 f 155).

Later uses of the premises included food-processing and storage, light engineering, paper distribution and

Location: 2	29-33 Birmingham S	street Alexandria 201	5	Sydney	
		g of textiles (29-33 B	irmingham St. Street ca	ds, NSCA).	
Themes:	National theme 3. Economy		State theme Commerce	Local theme Warehouses	
Designer:	Unknown				
Builder:	Harry Gladstone Wh	nittle			
Year started:	1935	Year completed:	1942	Circa: No	
hysical description:	Sons. The factory co	omprises a single-store	ey brick building contain	1935 with 1942 additions for H G Whittle and ned under a skillion roof supported by triangle upezoidal shape of the site on the bend of	
	The building was designed in the inter-war functionalist style. It demonstrates typical features of this style applied to a utilitarian building including heavy masonry construction, face brickwork, simple geometric building forms, high parapet wall concealing the roof form, restrained ornament through relief brickwork, quoins and vertically-proportioned timber windows.				
	The office entrance is located at the western end of the building and the factory entrance for vehicles at the eastern end. The attached office is distinguished externally by the step in the parapet wall, framed by quoins and the transition to narrow vertically proportioned windows that resemble glass blocks. Other external features include the timber casement windows, a large horizontal signage panel and decorative ventilation brick capping on the front façade.				
	Internally, the large internal spaces of the former factory and warehouse are divided into three main spaces, all with exposed roof trusses, plus the separated office at the western end. The form of the factory spaces are defined by the irregular shape of the allotment, where the external walls follow the non-square site boundaries, including the curved street boundary and an oblique angle along the rear boundary.				
	The timber second-storey was added to the western office section of the building, set-back from the main building frontage.				
Physical condition level:	Category: Individual building. Style: Inter-war functionalist. Storey: 1. Façade: Face brick. Good				
Physical condition: Archaeological potential level:	Not assessed				

SHI number 5062440 Study number

Sydney

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Modification dates: Timeline of known dates for changes to the site:

8 May 1935 Transfer lot 46 & 47 to Harry Gladstone Whittle, 34 Malvern Ave, Croydon

3 October 1935 Transfer lot 48 to Harry Gladstone Whittle, 34 Malvern Ave, Croydon

16 December 1935 Valuation of lots 46-48 shows Brick Workshop, Office and Factory with iron roof

30 June 1942 Additions had been made to factory

#### 1945

Workplace Survey shows H G Whittle, Birmingham Street carrying on a joinery works, using electrical machinery with 95 1/3 horsepower and 9 employees

#### 1949

Aerial photo shows main factory on lots 46-47. Lots 48-49 occupied by sheds and builder's yard

3 September 1954 Transfer to William Richard Percy Fleming, Kingsford, company director

31 May 1967 Transfer to Cyclamen Pty Ltd

1 June 1967 Application by C Hayes to build amenities worth \$1,500

3 October 1967 Lease of factory and vacant land at 29-33 Birmingham Street, Alexandria to Peters Creameries Pty Ltd

6 September 1967 Development Application by Cyclamen Pty Ltd for storage and distribution of processed food products

3 October 1967 Lease to Foremost Consolidated Pty Ltd

24 October 1973 Lease to Haymarket Carrying Co Pty Ltd

15 October 1973 Haymarket Carrying Co Pty Ltd requests use to bale, store and distribute paper

9 November 1973 Development Application by Precision Engineering Company Pty Ltd to use for light engineering manufacturing

28 July 1978 Development Application by Caledonia Bond Pty Ltd to bottle wine and spirits

20 April 1982 Transfer to Shedlow Pty Ltd

Full report

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28 April 1983 Application by C Cusack to make alterations to offices worth \$6,000

2 August 1984 Lease to Suntory (Aust) Pty Ltd

6 July 1988 Application by D Conway to use for printing and bonding of fabric and textiles

1 October 1988 Transfer to David Bernard Conway and Vivienne Conway Recommended The building should be retained and conserved.

#### management:

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).

Archival and photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes. Face brick finishes should not be painted.

The curved facade, high parapet wall, signage panel, brick quoin detailing, vertically-proportioned timber windows, decorative ventilation brick capping and other 1930s and 1940s building features should be maintained and conserved.

Consider new uses for the building that will re-use and expose its industrial features to retain its former industrial character as an integral part of the new use. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management:	Management category	Management name
	Statutory Instrument	List on a Local Environmental Plan (LEP)

#### **Further comments:**

Criteria a): Built in 1935-42 for the prominent building firm, H. G. Whittle & Sons, this factory represents the industrial [Historical development of Alexandria during the early to mid-twentieth century. It is historically significant for its significance] connection to the Australian manufacture of building supplies.

> The H. G. Whittle & Sons factory represents an early surviving example of the industrial development of Birmingham Street built shortly after the land was subdivided, which pre-dates the factories on the opposite side of the street. The building forms one of a group of surviving modest industrial buildings on Birmingham Street from the inter-war and post-war periods. The age and original use of these buildings reinforce the industrial origin of the street name and twentieth century planning of this street and surrounding locality as the Birmingham of Australia.

> The former H.G. Whittle & Sons factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Sydney

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location:	29-33	Birmingham	Street	Alexandria 2015
-----------	-------	------------	--------	-----------------

[Historical association	1930s to the 1950s and the These included the Transp Office, additions to Royal Technical College at Ultin	nt associations with the prominent building firm of H. G. Whittle & Sons from e major Sydney and Melbourne buildings this firm constructed during this period ort Building on Macquarie and Phillip Streets, additions to Sydney's General P Prince Alfred Hospital, work on the Dental Hospital in Chalmers Street and the no. good example of a modest inter-war factory of Alexandria designed in the inter	od. ost e new
	brickwork, simple geomet	onstrates typical features of this style including heavy masonry construction, fa ric building forms, high parapet wall concealing the roof form, restrained ornar quoins and vertically-proportioned timber windows.	
	manufacturing functions a	tts the typical industrial building typology of this period where the administrati re contained in different building forms, with the attached office distinguished ferent openings and the stepped height of the parapet wall.	
	streetscape, which is visib	rking the bend in Birmingham Street, the building is a distinctive feature in the le from a number of near and distant vantage points. The inverted curved buildi form for inter-war factories within the Alexandria locality.	
		a group of surviving modest industrial buildings on Birmingham Street from t riods, which give the street a distinct character.	he
Criteria d): [Social/Cultural significance]	Social significance requir	es further study to ascertain its value to communities. It's distinctive building for may have value to recent and past residents and workers as a point of reference	
Criteria e): [Research significance]			
Criteria f): [Rarity]	-	age is a rare building form for inter-war factories within the Alexandria localit bidal shape of the site on the bend of Birmingham Street.	у,
Criteria g): [Representative]	and the early to mid-twent	warehouse building is a representative example of modest inter-war factory bu tieth century industrial development of Alexandria. The building forms one of a trial buildings on Birmingham Street from the inter-war and post-war periods.	•
Intactness/Integrity:	The building appears intac	t externally	
References:	<b>Author</b> Dr Terry Kass	Title Industrial and warehouse buildings research - site history	<b>Year</b> 2014
	RTA	Aerial Photographs of Sydney May-June 1943	1943
	City of Sydney	Aerial Survey of the City of Sydney	1949
	City of Sydney	City Building Surveyors Detail Sheets	1956
	Scott Cumming	Chimneys and Change: Post European Environmental Impact in	2004
	Frances Pollon	The book of Sydney suburbs	1996
	Higinbotham & Robinson	Alexandria Sydney	1890
	Higinbotham & Robinson	Waterloo Sydney	1890
Studies:	Author City Plan Heritage	Title         Number           City of Sydney Industrial & Warehouse Buildings Heritage \$	<b>Year</b> 2014

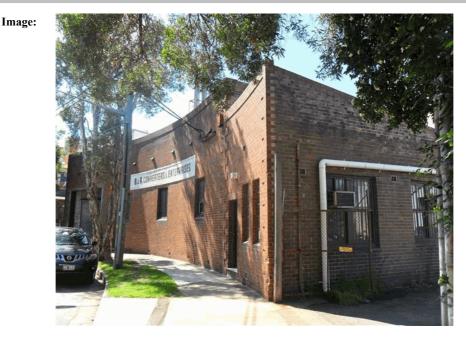
#### Item name: Former H. G. Whittle & Sons factory including interiors

Location:	29-33 Birmingham Street Alexandria 2015			Sydne	у	
Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number	
Latitude:				Longitude:		
Location validity:				Spatial accuracy:		
Map name:				Map scale:		
AMG zone:			Easting:		Northing:	
Listing:	Name City of Sydney Inc	lustrial and Ware	<b>Title</b> Heritage study		Number	ListingDate
Data entry:	Data first entered:	05/08/2014	Data updated:	12/05/2015	Statu	s: Completed

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Sydney



Caption:	Curved front facade and western	elevation of the factory	and office. looking east
Caption.			

	Copy	right:	City of Sydney
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- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345386a5569ef104aa09ee7700002739865.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345386a5569ef104aa09ee7700002739865.JPG

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Sydney



<b>Caption:</b>	Curved front	elevation	of the	building
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- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345c0c7b496fce1460f90d5a7c18265acc2.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345c0c7b496fce1460f90d5a7c18265acc2.JPG

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Sydney

Image:



- Caption: Detail of the western attached office
- Copy right: City of Sydney
- Image by: City Plan Heritage and JCIS Consultants

#### Image date:

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34583e14f5d78b94a6caeaaf61565d86a6c.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34583e14f5d78b94a6caeaaf61565d86a6c.jpg

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Sydney



Cantion:	Western elevation	of the former	factory	office showing the rear addition
Caption.			I GOLOI V	

- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3457a13a8b17768473d87c4f21a3dc69c7d.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3457a13a8b17768473d87c4f21a3dc69c7d.JPG

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Sydney

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- Caption: 1928 subdivision plan of the Birmingham Estate "the hub of industrial activity"
- Copy right: State Library of NSW
- Image by: State Library of NSW, a9617005
- **Image date:** 08/12/1928

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34580eda0a27b804591b933e9d82a6c0f41.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34580eda0a27b804591b933e9d82a6c0f41.jpg

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Sydney

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Copy right: State Library of NSW

#### Image by:

**Image date:** 19/01/1935

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345ff5534c23d474a3b9fc701019671bd04.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345ff5534c23d474a3b9fc701019671bd04.jpg

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Sydney



- Caption: 1949 aerial survey showing the subject factory buildings constructed by this time
- Copy right: City of Sydney Archives
- Image by: City of Sydney

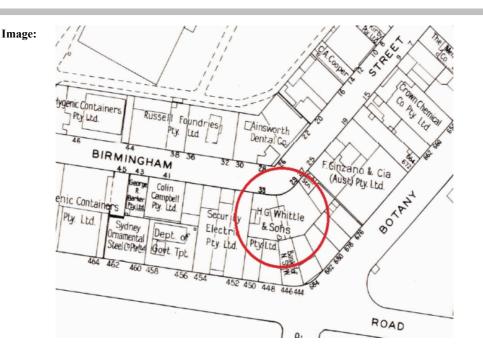
#### Image date:

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3453ef1b3b6324b4775b12470ee42ddfee1.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3453ef1b3b6324b4775b12470ee42ddfee1.jpg

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Sydney



- Caption: 1956 detail sheet showing the subject site, circled, and surrounding industries
- Copy right: City of Sydney archives
- Image by: City of Sydney
- **Image date:** 01/01/1956

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345e6cd3a92a100477babee693a9459bd95.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345e6cd3a92a100477babee693a9459bd95.jpg

#### Item name: Former H. G. Whittle & Sons factory including interiors

Location: 29-33 Birmingham Street Alexandria 2015

Sydney

Image:



Caption:	1940 work of Whittle & Sons for construction of an addition to Sydney's General Post Office
Copy right:	City of Sydney
Image by:	City of Sydney archives (SRC21058)
Image date:	23/05/1940
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34525c0aa1e5dbc4262970b9acfe72c71cc.jpg

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## Inventory 9

SHI number 5062450 Study number

Item name: Former Coote & Jorgenson Engineers factory including interiors					
Location: (	502-612 Botany Road Alexand	ria 2015			Sydney
Address:	602-612 Botany Road			Planning:	Sydney South
Suburb/nearest town:	Alexandria 2015				
Local govt area: State:				Parish: County:	
Address:	27-31 Ralph Street			Planning:	Sydney South
Suburb/nearest town:	Alexandria 2015				
Local govt area: State: Other/former names:	NSW	ı Farm Equ	upment Pty Ltd, Standard Motor	Parish: County: Products Ltd, Scott	and Bowne (Australasia), Aller
Area/group/complex:				Group	ID:
Aboriginal area:	Eora				
Curtilage/boundary:	As described in Sydney Local	Environm	ental Plan		
Item type:	Built	Group:	Manufacturing and Processing	Category: Other	- Manufacturing & Processing
Owner:					
Admin codes:		Code 2:		Code 3:	
Current use:	Storage				
Former uses:	Factory				
Assessed significance:	Local		Endorsed si	gnificance:	

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney

Statement of Built in 1937 and 1942 for machinery manufacturers, Coote and Jorgenson Engineers, this former factory significance: represents the industrial development of Alexandria during the mid-twentieth century. It is historically significant for its connection to the Australian manufacturing of tanks and maritime craft for World War II and automotive and farm machinery during peacetime, and as evidence of this formerly widespread engineering industry in Alexandria. The factory buildings also provide evidence of other widespread industries in the area from their post-war uses for manufacturing chemicals, confectionery and moulding plastics. As such, the factory represents the development of new technology and products of the twentieth century, in particular the development of automated transport and equipment for Australian defence and agriculture, and the growing use of plastics and chemicals.

The scale of the site and its buildings demonstrate the importance of the munitions and engineering industry for Sydney and Australia during the twentieth century and document the growth of this industry to support the war effort for World War II.

The buildings also represent rare surviving examples of a government annex constructed for the Australian Cruiser Tank project, which was a significant engineering achievement for Australian industry. As former government annex 89, the site provides evidence of Australian 'shadow factories' constructed by the Commonwealth Department of Munitions, in the same manner as Great Britain, for civilian manufacture of munitions in the lead up to World War II. Two other known annexes associated with this project at the Hadfields Steels site and the Sonnerdale annex on Parramatta Road in Camperdown have been redeveloped or demolished.

Aesthetically, the two buildings make important contributions to the streetscapes of Botany Road and Ralph Street. Both buildings represent good examples of mid-twentieth century factory buildings designed in the inter-war functionalist style. The buildings feature typical characteristics of the functionalist style including contrasting horizontal and vertical motifs, simple geometric massing and ornamentation, high parapet concealing sawtooth roofs, stepped skylines, curved corner elements, polychromatic face brickwork, relief decoration emphasising parallel lines, ornamentation concentrated along the parapet wall, steel multi-paned ribbon windows and monumental entrances. The Botany road building also demonstrates Art Deco elements with its pronounced symmetry and geometric decorative motifs.

The two buildings demonstrate the industrial building typology which contains administrative and manufacturing uses in distinctly different building forms, including the characteristic sawtooth-roof factory located behind a more architecturally distinctive office or showroom on the street frontages. When first constructed, the buildings represented the latest in engineering workshop design of its time with the sawtooth roof construction designed to maximise natural light and welded steel frame with alumuium paint to minimise shadows.

While openings and brickwork on the ground floor have been altered for subsequent uses, the buildings retain a higher degree of architectural integrity externally on the first floor and can still be recognised as industrial buildings from the inter-war period. Alterations to the Botany Road building to infill the ground floor windows likely demonstrate factory design for manufacturing chemicals.

The site may also hold significance to former Australian military personnel for its connection to the tanks manufactured at this site used during World War II and to some communities for its connection to the Ferguson tractors and other specialised machinery used on Australian farms.

The former Coote and Jorgenson Engineers factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former factory buildings are of local heritage significance in terms of its historical, associations, aesthetic, rarity and representative values.

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney

**Historical notes** Early development of the locality: **of provenance:** 

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Historical summary of the site:

This factory was constructed in circa 1937 as government annex 89 for Coote & Jorgensen to manufacture tank transmission gears and other components for the Australian Cruiser Tank project. The Australian Cruiser Tank project was a significant engineering achievement for Australian industry as it was designed and produced in Australia. In the later war years, the site became part of the network of factories producing small maritime craft for use in the Pacific Islands.

The Commonwealth Department of Munitions was created in 1939. Before the war, it had been developing 'annexes' based on the British 'shadow factory' programme, where existing civilian firms were provided with buildings and machinery in semi-separate facilities ready to produce munitions when needed. These 'annexes' were built on land owned by private companies leased to the Commonwealth, or operated with their own equipment and staff on behalf of the Commonwealth (D P Mellor, The Role of Science and Industry, p 30).

On 18 March 1938, a new certificate of title was issued to Coote & Jorgensen Pty Ltd for one acre one rood and 16 <sup>1</sup>/<sub>4</sub> perches of the subject land between Ralph Street and Botany Road, after the property conversion to Torrens Title (CT 4918 f 230).

E R Coote and O H Jorgensen formed the firm of Coote & Jorgensen in 1928 (SMH, 26 April 1949, p 6). It was first established at Salisbury Road, Camperdown (Wise, Directory, 1936, p 196) and subsequently expanded to this site. At this time, the company was a medium-sized engineering operation, manufacturing machinery such as wire drawing machines and industrial power transmissions.

The two factory buildings were constructed in two stages in circa 1937 and 1942 as a government annex to produce automotive gears and other components for the Australian Cruiser Tank project, principally the transmission gears. It was then known as Annex 89 (Australian Munitions Digest, Melbourne, 1946, NLA, Chapter 8, Appendix 1, page 5).

The construction of the new factory was recorded in the journal 'Building' in the September 1937 edition. The building represented the latest in engineering workshop design of its time. The exterior walls were constructed of brick with a sawtooth roof for maximum natural light, clad with corrugated asbestos sheeting. Internal framing was welded steel, painted with aluminium paint to minimise shadows (Building, 24 Sept 1937, p 44d).

The growth of the factory and its workforce is reflected by Coote & Jorgensen's advertisements for workers at 602 Botany Road, Alexandria. In 1941, the company advertised for an experienced gear cutter (SMH, 19 March 1941, p 19). On 12 June 1941, Coote & Jorgensen advertised for teenagers 15 to 16 years old to become apprentices at their engineering shop at this site (SMH, 12 June 1941 p 12).

The Ralph Street building appears to have been constructed following the Botany Street building. It was completed in approximately 1942. Government photos from this time of Annex 89 show the Ralph Street building in July 1942 as under construction with reinforced concrete columns and concrete slab floors. Photos from the same series show the completed building in November 1942 (National Archives of Australia, SP29/6, Coote and Jorgenson Complex).

The valuation of the land owned by Coote & Jorgensen Pty Ltd (CT 4918 f 230) on 27 November 1942 record that the buildlings on the site then included a brick factory and offices, with a corrugated fibro roof

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney

(Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, no 174). The 1943 aerial photograph shows the sawtooth roof of the factory covering almost the entire site. It had the same configuration from the air as the current building (1943 aerial photo SIX, LPI).

Additions by 19 February 1945 included offices and a drawing office (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, no 174).

The 1945 workplace survey listed Coote & Jorgensen Ltd at 600-612 Botany Road conducting an engineering business using electrical machinery rated at 422 horse power. The company employed 251 workers by this time (SRNSW 7/6847).

A 1946 listing of Commonwealth Government annexes records that the Coote & Jorgensen works at 602 Botany Road, Alexandria, had originally been set up to supply tank gears and parts. With the winding down of that project, it became part of the factory network constructing small maritime craft. The government later sold the factory to Coote & Jorgensen (Australian Munitions Digest, Melbourne, 1946, NLA, Chapter 8, Appendix 1, page 5).

Jorgenson's great ambition was to become involved in the automotive industry. During the early post-war years, the company began to make car replacement parts. The company expanded rapidly. By the late 1940s they began building a plant at the present site in Fairfield which commenced operation in 1952.

One of the co-founders of the firm, E R Coote, died on 24 April 1949 (SMH, 26 April 1949, p 6).

On 22 February 1954, the factory was transferred to Standard Motor Products Ltd (CT 5945 f 213). British Farm Equipment Pty Ltd was part of Standard Motor Products Ltd. They supplied motorcar, tractor and farm equipment. In 1954 ,Standard Motor Products Ltd proposed alterations to the building frontage (600-612 Botany Road, Street cards, NSCA). The company's main office was in Melbourne, whilst its Sydney premises were at 602-612 Botany Road, Alexandria. It supplied the Ferguson range of agricultural tractors and other specialised farm machinery (SMH, 4 March 1954, p 6; British Farm Equipment Pty Ltd, The road to dairy farm prosperity: A handbook for Australian dairy farmers, Melbourne, 1956).

In approximately 1957, the American company known as BorgWarner corporation put in a successful takeover bid for Coote & Jorgenson. The company subsequently produced more automotive and industrial products, and opened manufacturing plants and offices in a number of countries around the world.

On 23 February 1960, the property was transferred to Scott and Bowne (Australasia) Ltd (CT 5945 f 213). On 7 April 1960, Scott and Bowne (Australasia) Ltd proposed renovations to use the buildings for manufacturing chemicals (600-612 Botany Road, Street cards, NSCA).

In December 1969, the property was transferred to Allens Sweets Pty Ltd (CT 5945 f 213). In the same year Council received a development application from Allens Sweets Pty Ltd to use the building as a garage, workshop, warehouse, and for manufacturing and packaging confectionery (600-612 Botany Road, Street cards, NSCA).

On 20 June 1974, Allens Sweets applied to use the property for moulding plastics (600-612 Botany Road, Street cards, NSCA). The buildings were subsequently used as warehouses and showrooms in the 1980s by various firms, whilst owned by World Wide Collection Agency Pty Ltd (600-612 Botany Road, Street cards, NSCA).

Following the redevelopment of other former government annexes including the Hadfields Steels site and the Sonnerdale annex on Parramatta Road, Camperdown, replaced by a McDonald's outlet, this site is one of the few and possibly only surviving annexes associated with the Australian Cruiser Tank project.

Themes:	National theme	State theme	Local theme
	3. Economy	Commerce	Warehouses
	3. Economy	Industry	Warehouses

SHI number 5062450 Study number

Location:	502-612 Botany Road Alexar	ndria 2015	Sydney				
Designer:	Unknown						
Builder:	Unknown						
Year started:	1936 Year	completed: 1942	Circa: Yes				
Physical description:	circa 1937 and 1942. Both are	e constructed of face brick wal	onting Botany Road and Ralph Street, dating from ls with sawtooth roofs over the main factory ce or showroom component, concealed behind high				
	While both are double-storey in height, the Botany Road building is single-storey, except for the office/showroom over the front entrance. The Ralph Street building has vehicular access from both streets and no street setback. The Botany Road building is setback from the street behind a low face brick wall of the same style and materials as the building.						
	Both buildings are designed in the inter-war functionalist style. The two buildings exhibit typical characteristics this style including contrasting horizontal and vertical motifs, simple geometric massing and ornamentation, high parapet concealing pitched roofs, stepped skylines, curved corner elements, polychromatic face brickwork, relief decoration emphasising parallel lines, ornamentation concentrated along the parapet wall, steel multi-paned ribbon windows (on Ralph Street) and monumental entrances on both street frontages. The Botany road building also demonstrates Art Deco elements with its pronounced symmetry and geometric decorative motifs along the parapet wall. Regularly-spaced downpipes divide the facades of both buildings and mark the position of the sawtooth roofs behind the parapets.						
	The infill of ground floor windows, some new brickwork and concrete hood along the Botany Road elevation likely date from the post-war period when the building was converted to manufacture chemicals because chemical plants had no windows due to the risk of explosion. Aluminium-framed windows and the metal awning on the Botany Road elevation are more recent replacements.						
	While openings and brickwork on the ground floor have been altered for subsequent uses, the buildings retain a higher degree of architectural integrity externally on the first floor and can still be recognised as industrial buildings from the inter-war period.						
	Internally, the roof, foundations and floor structures have not been inspected by the authors.						
Physical condition level:	brick. Roofs: Sawtooth predo	ter-war functionalist with Art D ominantly concealed behind par	eco elements. Storeys: One and two. Façade: Face rapet wall.				
Physical condition: Archaeological potential level:	Not assessed						
Archaeological potential Detail:							

### Item name: Former Coote & Jorgenson Engineers factory including interiors Location: 602-612 Botany Road Alexandria 2015 Sydney Modification dates: Timeline of known dates for changes to the site: 18 March 1938 Certificate of title issued to Coote and Jorgensen Pty Ltd for one acre one rood and 16 1/4 perches 19 March 1941 Coote and Jorgensen, of 602 Botany Road, Alexandria, advertised for an experienced gear cutter 12 June 1941 Coote and Jorgensen, of 602 Botany Road, Alexandria, advertised for teenagers 15 to 16 years old to become apprentices at the engineering shop 27 November 1942 Valuation of land owned by Coote and Jorgensen Pty Ltd noted improvements of a brick factory and offices, with corrugated fibro roof 1943 Aerial photo shows sawtooth roof factory covering almost the entire site 19 February 1945 Additions include offices and drawing office 1945 Workplace survey listed Coote and Jorgensen Ltd at 600-12 Botany Road conducting an engineering business using electrical machinery rated at 422 hp with 251 employees 1946 Coote and Jorgensen 602 Botany Road, Alexandria originally supplied tank gears and parts but was then part of the project for constructing small maritime craft 8 February 1954 Proposed alterations to use front premises for motorcar, tractor and farm equipment suppliers Standard Motor Products Ltd 22 February 1954 Ownership transfer to The Standard Motor Products Ltd 23 February 1960 Ownership transfer to Scott and Bowne (Australasia) Ltd 7 April 1960 Application for renovations to use for manufacturing chemicals by Scott and Bowne (Australasia) Ltd 1 February 1961 Alterations proposed by Scott and Bowne valued at £6,000 10 June 1969 Application to use as garage, workshop, warehouse, manufacturing and packaging confectionery by Allens Sweets Pty Ltd 18 December 1969

Ownership transfer to Allens Sweets Pty Ltd

20 June 1974

Item name:	Former Coote & Jorgenson Fng	ineers factory including interiors			
	Former Coole & Sorgenson Eng	incers factory including interiors			
Location:	602-612 Botany Road Alexandria 2	015	Sydney		
	Allens Sweets proposal to use for m	oulding plastics			
	14 July 1988 Ownership transfer to World Wide (	Collection Agency Pty Ltd			
	9 August 1988 Application to use as showroom wa	rehouse and office by general merchan	ts Mayvic Pty Ltd		
	8 March 1989 Lease to Applied Polymers Pty Ltd	at for four years in option for an addition	onal four-year lease		
Recommended management:	21 March 1989 Application to use part as office and The buildings should be retained and	l showroom by World Wide Collection conserved.	L		
5	A Heritage Assessment and Heritage Impact Statement should be prepared for the buildings prior to any major works being undertaken.				
		future development should be undertak Iral Significance (The Burra Charter).	ken in accordance with the Australia		
	Archival and photographic recording before major changes.	, in accordance with Heritage Council	guidelines, should be undertaken		
	Face brickwork, steel windows, paraj original building features should be r	pet ornamentation, Art Deco and functi naintained and conserved.	ionalist decorative details, and other		
	Do not paint, render or seal unpainted face brickwork. Consider removal of paint from originally unpainted brickwork.				
	For repainting, use a colour scheme a decorative details in different tones.	appropriate to the inter-war period of th	ne building, which highlights		
	industrial character as an integral par	that will re-use and expose their industr t of the new use. Alterations for a new standards, should allow the essential fo	use, including changes for		
Management:	Management category Statutory Instrument	<b>Management name</b> List on a Local Environm	ental Plan (LEP)		
ther comments:	Inventory sheets are based on inform buildings. Inventory sheets are const inventory sheet with little informatio recently: it does not mean that items preparation of development proposal	ot comprehensive, and should be regar- ation available, and often do not includ- tantly updated by the City as further inf n may simply indicate that there has be are not significant. Further research is s for heritage items, and is necessary in agement Plans, so that the significance lications.	de the social history of sites and formation becomes available. An een no building work done to the item always recommended as part of n preparation of Heritage Impact		

Sydney

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Criteria a): Built in 1937 and 1942 for machinery manufacturers, Coote and Jorgenson Engineers, this former factory
 [Historical represents the industrial development of Alexandria during the mid-twentieth century. It is historically significance] significant for its connection to the Australian manufacturing of tanks and maritime craft for World War II and automotive and farm machinery during peacetime, and as evidence of this formerly widespread engineering industry in Alexandria. The factory buildings also provide evidence of other widespread industries in the area

As such, the factory represents the development of new technology and products of the twentieth century, in particular the development of automated transport and equipment for Australian defence and agriculture, and the growing use of plastics and chemicals.

from their post-war uses for manufacturing chemicals, confectionery and moulding plastics.

The buildings also represent rare surviving examples of a government annex constructed for the Australian Cruiser Tank project, which was a significant engineering achievement for Australian industry. As former government annex 89, the site provides evidence of Australian 'shadow factories' constructed by the Commonwealth Department of Munitions, in the same manner as Great Britain, for civilian manufacture of munitions in the lead up to World War II. Two other known annexes associated with this project at the Hadfields Steels site and the Sonnerdale annex on Parramatta Road in Camperdown have been redeveloped or demolished.

The scale of the site and its buildings demonstrate the importance of the munitions and engineering industry for Sydney and Australia during the twentieth century and document the growth of this industry to support the war effort for World War II. Alterations to the Botany Road building to infill the ground floor windows record its conversion to manufacturing chemicals.

The former Coote and Jorgenson Engineers factory forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Criteria b): The factory buildings have significant associations with the major mid-twentieth century machinery
 [Historical association Munitions and the Australian Cruiser Tank project during the World War II period. The buildings also have associations with the twentieth century operations of British Farm Equipment Pty Ltd, part of Standard Motor Products Ltd, during the 1950s, and the motorcar, tractor and farm equipment they manufactured. Subsequent associations with other manufacturing companies and products include the chemical manufacturers, Scott and Bowne (Australasia) from the 1960s, and confectionery manufacturers, Allens Sweets, from the 1970s.

Sydney

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

	Criteria c): [Aesthetic/ Technical significance]	Street. Both buildings represent good examples of mid-twentieth century factory buildings designed in the inter-war functionalist style. The buildings feature typical characteristics of the functionalist style including					
		manufacturing uses in located behind a mor constructed, the build	n distinctly differ e architecturally lings represented	dustrial building typology rent building forms, includ distinctive office or shown the latest in engineering se natural light and welded	ling the characteris room on the street f workshop design of	tic sawtooth-roof f frontages. When fin f its time with the s	rst awtooth
	Criteria d): [Social/Cultural significance]	higher degree of arch buildings from the in likely demonstrate fa Social significance re significance to forme used during World V	itectural integrity ter-war period. A ctory design for equires further st er Australian mil Var II and to som	ground floor have been a y externally on the first flo lterations to the Botany R manufacturing chemicals. udy to ascertain its value f itary personnel for their con e communities for its con-	bor and can still be coad building to inf to communities. Th ponnection to the tan	recognised as indu ill the ground floor e buildings may al ks manufactured a	strial windows so hold t this site
	Criteria e): [Research significance]	The buildings have p	specialised machinery used on Australian farms. The buildings have potential to yield information on the design of government annexes for manufacturing munitions for World War II, in particular relating to the Australian Cruiser Tank Project.				
	Criteria f): [Rarity]	Sonnerdale annex or	n Parramatta Roa	r former government anne d, Camperdown, replaced rviving annexes associated	by a McDonald's of	outlet, this site is no	ow rare as
I	Criteria g): Representative]	The buildings represe		es of factories from the int			
Intac	ctness/Integrity:	Relatively intact exter	rnally				
	References:	Author Dr Terry Kass SSMC Heritage Photo Scott Cumming	ographic Survey	Title Industrial and warehous Two to four storey brick Chimneys and Change:	k factory, Botany R	oad frontage	<b>Year</b> 2014 ii 2004
	Studies:	<b>Author</b> City Plan Heritage	<b>Title</b> City of Syd	dney Industrial & Wareho	use Buildings Herit	Number tage {	<b>Year</b> 2014
	Parcels:		ot number & B	Section number	<b>Plan code</b> DP	<b>Plan number</b> 361014	
	Latitude:				Longitude:		
L	ocation validity:			SF	oatial accuracy:		

Full report

This report was produced using the State Heritage Inventory application provided by the Heritage Division, Office of Environment and Heritage

Sydney

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

 AMG zone:
 Easting:
 Northing:

 Listing:
 Name
 Title
 Number
 ListingDate

 City of Sydney Industrial and Ware
 Heritage study
 Data updated: 25/09/2015
 Status: Completed

Date: 25/09/2015 Full report Page 11 of 27 This report was produced using the State Heritage Inventory application provided by the Heritage Division, Office of Environment and Heritage

Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney

Image:



- Caption: Building presentation to Botany road
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 03/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3454d82b70210a84f7badbd7eda6a3d60cf.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3454d82b70210a84f7badbd7eda6a3d60cf.JPG

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



Caption:	Botany	Road	entrance
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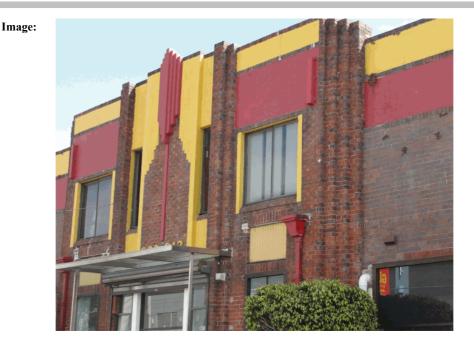
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 03/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3455bc866f6a6914011acdc296d4834994e.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3455bc866f6a6914011acdc296d4834994e.JPG

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



Caption:	Facade of	ornamentation	over the	entrance	and first	floor office
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- Image by: City Plan Heritage and JCIS Consultants
- **Image date:** 20/09/2013

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34541c89a6ba45a4d1b9dc3d87fbbc9dd42.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34541c89a6ba45a4d1b9dc3d87fbbc9dd42.jpg

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney





Caption:	Dwarf brick fence detail		
Copy right:	City of Sydney		
Image by:	City Plan Heritage and JCIS Consultants		
Image date:	20/09/2013		
Image number:			
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345000e5ac4fe1d4dcdb3db51b54027dc25.jpg		
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test345000e5ac4fe1d4dcdb3db51b54027dc25.jpg		

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney





Caption: Botany Road view th	rough to Ralph	Street building
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- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 03/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345f0f3d2589cb14f02aa81dce55426480d.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345f0f3d2589cb14f02aa81dce55426480d.JPG

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



Caption:	Ralph Stre	eet building
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- Copy right: City of Sydney
- Image by: City Plan Heritage and JCIS Consultants
- **Image date:** 20/09/2013

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345bdead6bd61554102ad408bfc84134d9f.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345bdead6bd61554102ad408bfc84134d9f.jpg

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



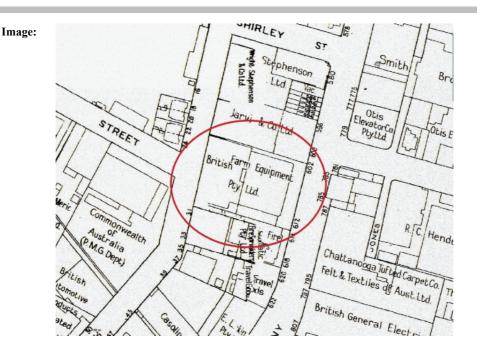
- Caption: The factory photographed from the air in 1943 with the same sawtooth roof configuration today
- Copy right: Land & Property Information
- Image by: SIX aerial photo, LPI
- **Image date:** 01/01/1943

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345667685a09f0b4d6cafee676ab2e7fa4b.png
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345667685a09f0b4d6cafee676ab2e7fa4b.png

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



Caption: 1956 detail sheet showing the subject site, circled, and surrounding industries

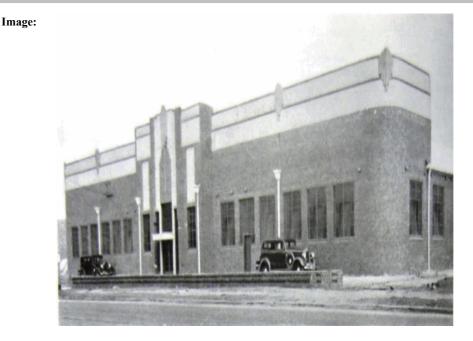
- Copy right: City of Sydney
- Image by: City of Sydney
- **Image date:** 01/01/1956

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34510930eb4f23440d08ad896146ce60a25.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34510930eb4f23440d08ad896146ce60a25.jpg

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



- Caption: Botany Street building with original windows, published in 'Building' journal (24 Sept 1937, p. 44c)
- Copy right: Building
- Image by: Building journal
- **Image date:** 24/09/1937

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a98e6277182f4801a4e3ab102adf851c.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a98e6277182f4801a4e3ab102adf851c.jpg

SHI number 5062450 Study number

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



- Caption: Original factory entrance, as published in 1937 'Building' journal (24 Sept 1937, p. 44c)
- Copy right: Building
- Image by: Building journal
- **Image date:** 24/09/1937

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3450317c128f77d4a9abb300f1efe686fe8.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3450317c128f77d4a9abb300f1efe686fe8.jpg

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



Caption:	South-west corner of Botany Road building in 1942 showing sawtooth roof behind
Copy right:	National Archives of Australia
Image by:	National Archives of Australia (NAA:SP29/6,COOTE & JORGENSON COMPLEX)
Image date:	21/05/1942
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34513c2452b23874c2f8514704256ace572.jpg
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test34513c2452b23874c2f8514704256ace572.jpg

Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Image:

Sydney



COOTE & JORGENSEN. ANNEXE 89. 11-9-42 - MACHINES BEING INSTALLED NAREA ON SOUTHERN SIDE ENCLOSED BY TEMPORARY PARTITION

Caption: 1942 workshop interiors showing machinery install	ation
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Copy right:	National Archives of Australia
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Image by: National Archives of Australia (NAA:SP29/6,COOTE & JORGENSON COMPLEX)

**Image date:** 11/09/1942

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3459a20a48ff6344950a760b89649f4b534.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3459a20a48ff6344950a760b89649f4b534.jpg

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



Caption:	Botany Street building under construciton in 1942 with reinforced concrete columns and concrete slab
Copy right:	National Archives of Australia
Image by:	National Archives of Australia (NAA:SP29/6,COOTE & JORGENSON COMPLEX)
Image date:	14/07/1942
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34551c1ee5da53d4d7c874cbdf57b39baf3.jpg

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34551c1ee5da53d4d7c874cbdf57b39baf3.jpg

SHI number 5062450 Study number

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney

Image:



Caption:	Recently completed Ralph Street building in 1942, showing southern side elevation
Copy right:	National Archives of Australia
Image by:	National Archives of Australia (NAA:SP29/6,COOTE & JORGENSON COMPLEX)
Image date:	28/11/1942
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345be8603718d994c55a766bb0d45bf06af.jpg
Thumbnail unle	http://www.opvirepment.psw.gov.gu/maritimehoritage.pp/resources/Horitage/shi/MehAP

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345be8603718d994c55a766bb0d45bf06af.jpg

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney

Image:

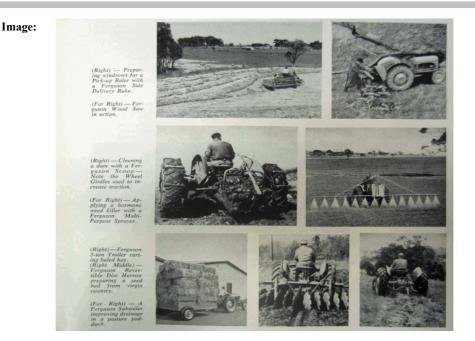


Caption:	An Australian Cruiser Tank (AC1) demonstrating its prowess in 1943 (SLV H98.105/4277)
Copy right:	
Image by:	
Image date:	01/01/1943
image date.	
Image number:	
Image url:	
	P/345022130b32d284876b3ac88592379ce4f.jpg
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test345022130b32d284876b3ac88592379ce4f.jpg

#### Item name: Former Coote & Jorgenson Engineers factory including interiors

Location: 602-612 Botany Road Alexandria 2015

Sydney



Caption:	Sample of British Farm Equipment tractors and farm machinery sold in Australia
Copy right:	
Image by:	British Farm Equipment
Image date:	01/01/1956
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34523950fff5dfa4b05854f5525a57c1ac3.jpg
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test34523950fff5dfa4b05854f5525a57c1ac3.jpg

# Inventory 10

#### Item name: Former White Way service station including interiors

Location: 6	584 Botany Road Alexandria 2015		Sydney
Address:	684 Botany Road	Р	lanning: Sydney South
Suburb/nearest town:	Alexandria 2015		
Local govt area: State: Other/former names:	NSW	ation, One Stop Super Service Station, inter-	<b>Parish:</b> <b>County:</b> war service station
Area/group/complex:	Group ID:		
Aboriginal area:	Eora		
Curtilage/boundary:	As described in Sydney Local Environ	nental Plan	
Item type:	Built Group	: Transport - Land Category	y: Petrol Station/Service Station
Owner:	Private - Individual		
Admin codes:	Code 2	: Code 3	3:
Current use:	Commercial		
Former uses:	Service station		
Assessed significance:	Local	Endorsed significance	2:
		station, the former White Way service static twentieth century, specifically for the autom	

The building provides evidence of the growing use of the motor car during the twentieth century, which had a profound impact not only on industry, but also on Sydney's development, environment and culture.

The service station also demonstrates the early period of petrol supply through independent service operators during the early twentieth century, which were largely replaced by chain petrol stations associated with the oil companies by the 1950s.

While altered, the building is still recognisable as an example of an inter-war service station designed in the Spanish Mission style. It is a rare surviving example of an inter-war Spanish Mission service station within the City of Sydney. The building exhibits typical features of inter-war service stations of this style, including the integrated upper level residence, the curved decorative parapet, groups of arched openings and exaggerated texture applied to brick walls. The use of this flamboyant style inspired by Hollywood movies for a modest utilitarian building, demonstrates the glamour attached to motor cars at the time.

With its prominent corner position at the junction of two main roads and distinctive architecture, the building also represents a local landmark. The former service station makes an important contribution to the streetscapes of Gardeners and Botany Roads and is highly visible from a number of near and distant vantage points.

The former White Way service station forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

The former service station is of local heritage significance in terms of its historical, aesthetic, representative and rarity values within the local government area.

#### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Sydney

**Historical notes** Early development of the locality: **of provenance:** 

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

#### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Motor car and service stations history (Kirk and Martin 2006):

Automobiles were a major product of manufacturing, produced through factory assembly lines. They were also part of the technology which supported twentieth century industry by transporting materials and manufactured goods, and ultimately allowed industry to move out of inner cities. Their increasing use during the twentieth century spurned the growth of the motor car industry in Australia. Surviving service stations from the inter-war period provide evidence of the growing use and dominance of the motor car during the twentieth century.

In 1911 a total of 3,975 private motor cars were registered in NSW. By 1921 this had risen to 28,665 and by 1926 had made a further dramatic increase to 104,675, rising to 170,329 in 1929. In the early days of motor cars, owners bought motor spirit in cases and tins and filled their tanks themselves. By the 1920s the invention of the petrol bowsers and safety concerns about the storage of fuel in tins led oil marketing companies to begin the widespread installation of petrol pumps at commercial garages. Increasingly during the 1920s motor garages, sometimes called filling stations but more often service stations, began operating as a separate retail activity to motor body builders and car dealers, with petrol being delivered in bulk by oil company tank wagons for underground storage.

In 1925 the annual Sands' Directory listed "Motor Service Stations" as a trade directory for the first time with just 25 entries. The number grew rapidly through the late 1920s and 1930s. By 1926, 44 stations were listed in the directory, with 70 by 1927, 109 in 1928, 233 in 1930, 281 in 1931 and 321 in 1932-3; the last year when the Sands directory was published. The severe economic depression of the early 1930s led to a dramatic drop in the number of car registration and a significant decrease in the building rate of new service stations.

Multi-brand garages remained a common feature of petrol retailing until the early 1950s. In August 1951 the oil company Shell announced its intention to introduce 'solo' marketing, requiring selected resellers to deal exclusively with Shell. Within months Vacuum, Caltex, and Atlantic Union (later Esso) adopted similar policies, involving agreements with resellers to distribute a single brand of petrol.

The oil companies also demanded a modernised appearance for the new 'solo' outlets, including the removal of individual identifying features, the installation of new pumps, the use of uniform signage and colour schemes and the provision of large display areas for merchandise and accessories.

Smaller companies such as Ampol and H.C. Sleigh (later Golden Fleece) continued to supply the multi-brand, independent stations until Ampol also introduced 'solo' marketing in 1952 and constructed its own service stations. In December 1952 Ampol opened the first company-owned service station in Australia in Mosman, Sydney, amid great ceremony.

Historical summary of the site:

These buildings were constructed in 1929 as the White Way service station for Mary Elsie Gearin. The service station was leased to a succession of garage proprietors.

A certificate of title for lot 15, DP 16027 was first issued to Mary Elsie Gearin, wife of Michael Gearin, junior, merchant of Sydney on 26 August 1929. It included a covenant forbidding use of the land for noxious industries or as a public parking area for motor vehicles (Certificate of Title 4317 f 87). A mortgage of 2 October 1929 possibly financed construction of the service station on this land (CT 4317 f 87).

#### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Sydney

The White Way service station was purpose-built for use as a motor garage, filling and service station. As was characteristic for inter-war service stations, the garage design incorporated an upper level residence, likely for the garage manager or proprietor. The building was designed in the Spanish Mission style, an architectural style of the inter-war period which was popular for the design of service stations and movie cinemas in the 1920s and 1930s. This style evoked the Hollywood romance and glamour attached to the motor car in the inter-war period (Kirk & Martin 2006).

The original land sale prohibited using the land as a public parking area for motor vehicles. A deed poll of 1 October 1929 was signed with the subdividers which released the land from this restriction, since the existing building was already in use as a motor garage, filling and service station (CT 4317 f 87). The Sands Directory of 1930 recorded that W Evans operated a motor garage and service station at the intersection of Botany Road and Gardeners Road (Sands, Directory, 1930, p 130).

Mary Gearin had plans to sell the service station. The real estate firm of Stanton and Son advertised the Whiteway Service Station, at the corner of Botany Road and Gardeners Road, for sale on May 1930 (SMH, 26 April 1930, p 10). No later sale advertisement has been found, which implies Mary Elsie Gearin changed her mind. In 1931 and 1933, the Advanx Tyre-pair Co ran the service station at this site (Sands, Directory, 1931, p 130; 1932-3, p 130).

When the property was re-valued on 1 October 1930, the assessment records that the subject lot 15, otherwise known as 684 Botany Road, contained a service station and garage, a detached brick building with an iron roof, and 6 bowser pumps (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8587, no 191).

By 1936 the Wise Directory records that the building, then known as the Civic Service Station, was operating at the corner of Botany and Gardeners Roads (Wise, Directory, 1936, p 164). The garage was still listed at this location by 1947 (Wise, Directory, 1947, p 198).

Mary Elsie Gearin owned the garage for many years until 30 September 1955, when it was transferred to the Anglo United Petroleum Ltd (CT 4317 f 87). The premises was then used for motor reconditioning and for selling used cars, as a panel and spray-painting shop as well as a garage.

On 21 June 1974, the property was transferred to McFee Construction Engineering Pty Ltd (CT 4317 f 87). The building was used as a panel beater and spray-painting shop and garage, for the manufacture and repair of radio and electrical equipment and to manufacture furniture (684 Botany Road, Street cards, NSCA; CT 4317 f 87).

Later alterations for the conversion of the building to retail uses have included removal of the petrol tanks within the forecourt, a contemporary shopfront and fit-out on the ground floor, new signage and other internal alterations.

Themes:	National theme 3. Economy	<b>State theme</b> Transport	Local theme motor car
	3. Economy	Commerce	Service station/garage
Designer: U	Jnknown		
Builder: U	Jnknown		
Year started:	Year completed	: 1929	Circa: Yes

Sydney

#### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

**Physical description:** The building was constructed in 1929 as a two-storey service station with upper level residence. The building is set back from Botany Road behind an open forecourt area, where petrol bowsers were originally located.

The building was designed in the inter-war Spanish Mission architectural style. It retains typical elements of this style including including its symmetrical facade, decorative curved parapet, grouped arched openings and stucco finish with exaggerated texture applied to brick walls.

The parapet wall features two large original arches, and a central arch that is likely an addition revealed by its different edge profile. Single-arched windows are located beneath each parapet arch, flanking a central bank of three arched opening. A skillion roof, clad with corrugated iron, shelters the open forecourt. Side walls flank the open courtyard, which are finished with similar decorative elements as the main facade. Ground floor fenestration appear to be later aluminium installations.

The building's prominent corner position and distinctive architecture make the building a local landmark. It marks the junction of two main roads of Gardeners and Botany Road and is highly visible from a number of near and distant vantage points.

The building has been converted to retail uses. Alterations for these new uses have included removal of the petrol tanks within the forecourt, a contemporary shopfront and fit-out on the ground floor, new signage and other internal alterations.

The roof, foundations and floor structures have not been inspected by the authors.

Category: Individual building. Style: Inter-war Spanish Mission. Storeys: Two. Facade: Textured render. Physical condition Good

level:

Physical condition: Archaeological Not assessed potential level:

Archaeological potential Detail:

### Item name: Former White Way service station including interiors Location: 684 Botany Road Alexandria 2015 Sydney Modification dates: 26 August 1929 Certificate of title issued for lot 15, DP 16027, to Mary Elsie Gearin, wife of Michael Gearin, junior, merchant of Sydney 2 October 1929 Site mortgaged 1 October 1929 Deed poll releasing the use of the land from restrictions against using the area as a public parking area for motor vehicles 1930 Directory showed W Evans, motor garage and service station where Botany Road meets Gardeners Road 6 May 1930 Stanton and Son were to offer the Whiteway Service station, corner Botany Road and Gardeners Road, for sale 1 October 1930 Revaluation shows lot 15 (684 Botany Road) occupied by a service station and garage with a detached brick building with an iron roof and 6 bowser pumps 1931 and 1932-33 Advanx Tyre-pair Co, service station 1936 Directory records site as Civic Service Station, corner of Botany Road and Gardeners Road 9 July 1937 Lease to Harold Charles Osborne, service station proprietor of Sydney 1947 Directory records Civic Service Station, corner of Botany Road and Gardeners Road 30 September 1955 Ownership transferred to Anglo United Petroleum Ltd 23 December 1955 Lease of part to Ronald Hosking, motor reconditioner of Rosebery 20 July 1960 Proposed use for selling second-hand cars 7 July 1967 Application to use building as a tire service station by Claude Neon Ltd 20 April 1972 Application to use building for panel beating and spray-painting and tyre repairs by Parone Investments Pty Ltd 21 June 1974

Ownership transfer to McFee Construction Engineering Pty Ltd

4 November 1974 Application to use building for belt sales and electronics Inflo Belt Weighers Pty Ltd

#### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Sydney

21 December 1979

Ownership transferred to John Bajioz, engineer of Waverley and his wife, Helen and Laszlo Illes, panel beater of Erskineville and his wife Valeria

18 September 1979 Application to use building for panel beating and spray-painting by John Bajioz, and Laszlo Illes

22 October 1980 Security Shack Pty Ltd apply to use building to manufacture and repair radio and electrical equipment

26 March 1981 Ownership transferred to Vaisselle Pty Ltd

1 March 1983 Application to use building as motor garage by Vaisselle Pty Ltd

20 June 1983 Application to use building for panel beating and spray-painting

11 July 1983 Application to use building for manufacturing furniture by Constantine Kitchens

In recent years, the petrol pumps and tanks have been removed and filled in but their footprints are still visible. Ground floor shopfront and fit-out have been replaced for retail uses.

Recommended The building should be retained and conserved.

#### management:

A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken.

All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter).

Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.

The curved parapet wall, arched openings, textured rendered finish, side walls, open fourcourt and other original features of the former service station should be maintained and conserved.

Minimise or relocate signage so that it does not dominate or obstruct views to the building and better integrates with its historic architectural features.

For repainting, use a colour scheme appropriate to the inter-war period of the building, which highlights its decorative details in different tones.

Consider new uses for the building that will re-use and expose its service station features to retain its inter-war character as an integral part of the new use. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable.

Management: Management category Statutory Instrument

Management name List on a Local Environmental Plan (LEP)

Item name:	e: Former White Way service station including interiors				
Location:	684 Botany Road Alexandria 2015	Sydney			
Further comments: Criteria a): [Historical significance]	Heritage Inventory sheets are often not comprehensive, and should be regarded as a gene Inventory sheets are based on information available, and often do not include the social buildings. Inventory sheets are constantly updated by the City as further information beinventory sheet with little information may simply indicate that there has been no building recently: it does not mean that items are not significant. Further research is always recompreparation of development proposals for heritage items, and is necessary in preparation Assessments and Conservation Management Plans, so that the significance of heritage item prior to submitting development applications. Built in 1929 as a purpose-built service station, the former White Way service station renew industries in Alexandria during the twentieth century, specifically for the automobil. The building provides evidence of the growing use of the motor car during the twentieth	history of sites and comes available. An ng work done to the item mmended as part of of Heritage Impact ems can be fully assessed presents the growth of le industry.			
	profound impact not only on industry, but also on Sydney's development, environment a The service station also represents the early period of petrol supply through independen which were largely replaced by chain petrol stations associated with the oil companies b	t service operators,			
	The former White Way service station forms part of one of the largest known collection warehouse buildings of its kind in Australia, which records City of Sydney's past as one industrial heartlands in Australia. This collection of buildings provides evidence of Aus transformation through industrialisation when Sydney became one of the largest industri Pacific. The service station is associated with its original owner, Mary Elsie Gearin, from 1929 t number of garage operators who ran the building as a service station during this period.	e of only two historic tralia's twentieth century ialised cities in the South o the 1950s, and a			
association	the 1970s when it was converted to other uses, the building has a long association with t for a large part of the twentieth century.				
[Aesthetic/	While altered, the building is still recognisable as an example of an inter-war service sta Spanish Mission style. The building exhibits typical features of inter-war service station the integrated upper level residence, the curved decorative parapet, groups of arched ope texture applied to brick walls. The use of this flamboyant style inspired by Hollywood n utilitarian building, demonstrates the glamour attached to motor cars at the time.	s of this style, including enings and exaggerated			
Criteria d): [Social/Cultural significance]	With its prominent corner position at the junction of two main roads and distinctive arch also represents a local landmark. The former service station makes an important contrib of Gardeners and Botany Roads and is highly visible from a number of near and distant Social significance requires further study to ascertain its value to communities. The bui qualities in the local neighbourhood may have value to the local community as a point of connection to the early automobile industry in Alexandria.	ution to the streetscapes vantage points. lding's landmark			
Criteria e): [Research significance]					
Criteria f): [Rarity]	The building is a rare surviving example of an inter-war Spanish Mission service station Sydney	n within the City of			
Criteria g): [Representative]	The building is a representative example of a garage from the inter-war period designed style.	in the Spanish Mission			
Intactness/Integrity:	While some decorative details and petrol pumps have been removed, the building is still inter-war service station.	recognisable an an			

Sydney

### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

References:	<b>Author</b> RTA		<b>Title</b> Aerial Photographs of	of Sydney May-June 1	943	<b>Year</b> 1943
	City of Sydney/ City Building Surveyc					
	Scott Cumming	ty Dunning Survey	, , ,	ge: Post European Env	vironmental Impact in	1956 2004
	C C			suburbs	in online in the part of the	1996
	Higinbotham & Ro	binson	Alexandria Sydney			1890
	Higinbotham & Ro		Waterloo Sydney			1890
	Dr Terry Kass			ouse buildings researc	h - site history	2014
	Ian Kirk and Mega	n Martin		arages and service stat	-	2006
Studies:		Title	lney Industrial and Wa	rahawaa Duildinga Ha	Number	<b>Year</b> 2014
	City Plan Heritage	5 5	iter- war Garages and s	•	e	2014
		,				
Parcels:	Parcel code	Lot number	Section number	Plan code	Plan number	
	LOT	15		DP	16027	
Latitude:				Longitude:		
Location validity:				Spatial accuracy:		
Map name:				Map scale:		
AMG zone:			Easting:		Northing:	
Listing:	Name	Т	ĩitle		Number	ListingDate
8		lustrial and Ware H	Ieritage study			8
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Data entry:	Data first entered:	26/08/2014	Data updated:	24/09/2015	Status:	: Completed

Date: 24/09/2015 Full report
This report was produced using the State Heritage Inventory application provided by the Heritage Division, Office of Environment and Heritage

SHI number 5062522 Study number

#### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Sydney

Image:



- Caption: Former service station in 2014
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345c48c29795a49417eac6a53df0b2a895b.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345c48c29795a49417eac6a53df0b2a895b.JPG

SHI number 5062522 Study number

#### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Sydney

Image:



- Caption: Oblique view of street elevation from Botany Road, showing textured side walls
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3454e06f55626214ebeb464ab79a9d762c6.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3454e06f55626214ebeb464ab79a9d762c6.JPG

### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Sydney





Caption: T	he service	station in	1960.	then called t	he Civic	Service Station
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Copy right: City of Sydney archives

#### Image by:

**Image date:** 01/03/1960

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345280cc0a3d10041758d7ba53624ae7275.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345280cc0a3d10041758d7ba53624ae7275.jpg

### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Sydney



Caption:	Former service station in 2006, as published in the service station study		
Copy right:			
Image by:	Ian Kirk & Megan Martin		
Image date:	01/09/2006		
Image number:			
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3458c3f34db12804eada0401f8ba70b16cc.jpg		
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test3458c3f34db12804eada0401f8ba70b16cc.jpg		

#### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Image:

Sydney

1 may	The Hub of Industrial Activity MASCOT.
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	FACTORY - BUSINESS - RESIDENTIAL SITES
thermal and	The progress and development of this locality have been most remarkable during the part few generations the exponence of our great Day and its control position dimaingham Listate is wooderFully seturated with Trans. Buses and Coord Roads leading to all Suburks
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	CARDENERS R. R. AND
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2	N Discovering as an adapted to Dynamic Alex. The State of the State
100	P. Conversionme & Co. Ltd., Lithis, Sydney

- Caption: 1928 subdivision plan of the Birmingham Estate "the hub of industrial activity"
- Copy right: State Library of NSW
- Image by: State Library of NSW, a9617005
- **Image date:** 08/12/1928

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3451257a57352be46a6bb8d3e91346e4c6d.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3451257a57352be46a6bb8d3e91346e4c6d.jpg

### Item name: Former White Way service station including interiors

Location: 684 Botany Road Alexandria 2015

Sydney

Image:	
	ALEXANDRIA
	BIRMINCHAM MASSOT
	FETATE
	Auction Sale on the Ground SATURDAY
	HARDIE 19"JANUARY 1935
	CORMAN PTYLTD. AT 3 P.M.
	Auctioneers <u>36 Martin Place Sydney</u> in conjunction with
	W.E.SHARPERC?
	TORRENS TITLE
	TORRENS TITLE
	TERMS ID par cont Deposit, Balance in Re equal Duscherty hypeson
	Right to pay all at any line
	The fait of the second
	191
	BIRMINGHAM BIRMINGHAM
1	And I wanted answer in the base
	CARDENERS ROAD
	Thursday Picture
er fer	- Sector to the Back -
	MURPHY * MOLONEY - 18 Elizabeth II.Sjohry -
	At manufacturente ant religiour in diparter

Caption:	1935 subdivision	plan of Birmingham Estate	showing subject garage

- Copy right: State Library of NSW
- Image by: State Library of NSW
- **Image date:** 19/01/1935

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34533c3cf5f308241c3a6d5729f22d1f6db.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34533c3cf5f308241c3a6d5729f22d1f6db.jpg

# Inventory 11

Sydney

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Address:	47-49 Bourke Road		Planning: Sydney South
uburb/nearest town:	Alexandria 2015		
Local govt area: State: Other/former names:	NSW		Parish: County:
Area/group/complex:	Soverminent Stores		Group ID:
Aboriginal area:	Fora		
-	As described in Sydney Local Environme	ental Plan	
Item type:			Category: Other - Manufacturing & Processin
	Private - Corporate		
Admin codes:	Code 2:		Code 3:
	Industrial units		
	Industrial/warehouse		
Assessed significance:		Endorsed si	gnificance:
	Purpose-built as a store for the New Sout industrial development in Alexandria for modern building demonstrates the next p construction of large wool sheds along the need for government storage along the A last major phase of industrial development Architecturally, the Q Store represents a Australian architect, Harry Seidler, and a Store demonstrates Seidler's modernist de industrial buildings or warehouses in Sei- creative solution for providing large oper internal lighting, particularly the use of a and the highlight glazing. With its distinctive, visually-striking and the streetscape of Bourke Street. The bui comparisons in the neighbourhood. The adaptive re-use of the building in 200 respected and retained the integrity of Se The Q Store forms part of one of the larg in Australia, which records City of Sydne This collection of buildings provides evid industrialisation when Sydney became on The Q Store is of local heritage significant	large-scale government warehou hase of government stores develo e canal located behind this site. I lexandra Canal during the second nt in southern Sydney before indu- rare example of an industrial buil fine example of a warehouse in esign philosophy applied to an in dler's career. The dynamic buildi a spaces for flexible storage and n tetrahedron structural system for cohesive architecture, the buildin lding is a local local landmark in 09 for technology industry units of idler's original design. est known collections of industri ey's past as one of only two histo dence of Australia's twentieth cen- ne of the largest industrialised cit	asing along the Alexandra Canal. This opment following the World War II It provides evidence of the continued d half of the twentieth century from the ustry declined in the area. Iding designed by prominent the post-war international style. The Q idustrial building; one of only three ng structure illustrates Seidler's moving equipment and glare-free r the roof, tapering concrete columns ng makes an important contribution to Alexandria, with few, if any, designed by Lacoste + Stevenson al and warehouse buildings of its kind oric industrial heartlands in Australia.

SHI number 5062442 Study number

#### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney

Historical notes Early development of the locality:

of provenance:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

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#### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

The high tariff wall imposed by government during the twentieth century to foster local manufacturing was an important driver of industrialisation and manufacturing up until the 1980s. Thereafter, manufacturing declined. Within the Greater Sydney area, the demise of industry was especially marked in the City of Sydney as traditional industries relocated to outer suburbs or closed down operations.

Historical summary of the site:

The Q Store was constructed in 1969 as a store building for the New South Wales government. The building was designed by the prominent Australian architect, Harry Seidler, in collaboration with the NSW Government Architect, in the post-war international style.

The Q store is located in close proximity to the Alexandra Canal on land that was formerly part of the adjacent James Barnes industrial site. The James Barnes factory manufactured linseed oil and meal mill from approximately 1917. Its factory site once included the properties from 41 to 63 Bourke Road.

Large stretches of surrounding land adjoining the Alexandra Canal were also publicly-owned and used for similar storage or war-related industrial purposes during the second half of the twentieth century. Behind the subject site, timber wool sheds were built by the Commonwealth Government during World War II, on the banks of the Alexandra Canal, to stockpile wool until exports could resume. After the war, the wool sheds were transferred to the NSW Government and used for storage. The neighbouring property to the south of the Q store was also government-owned by the Commonwealth Department of Aircraft Production, as recorded in the 1950s surveys.

In 1963 the subject land was transferred into public ownership as Crown land. Land title records show that the subject land comprising an area of 4 acres 1 rood 35 perches on Bourke Road was conveyed by James Barnes Pty Ltd to Her Majesty Queen Elizabeth II for £180,000 on 18 October 1963 (Old System Deed, 458 Bk 2677).

As a modern building also custom-built as government stores located close to the wool sheds along Alexandra Canal, the Q Store demonstrates the next phase of large-scale government warehousing in a radically different style. Unlike the wool sheds which were rapidly constructed in timber using an assembly line technique developed by Stuart Bros to meet the huge demand for stores during the war, the Q store was a permanent architect-designed structure.

From 1964-68, Harry Seidler was engaged to design the Q Stores (Peter Blake, Architecture for the new world: The work of Harry Seidler, Horwitz, Sydney, 1973, p 102). Harry Seidler designed only three industrial or warehouse structures in his whole career, out of his work of approximately 180 buildings.

The client, the New South Wales Government, required 150,000 square feet (13.935 square metres) of storage area and a height of 20 feet (6 metres), minimal structural columns and good daylight without sun penetration (NSW Public Works Department, Annual Report, 1967-8, pp 47-8). The building required large open spaces for flexible storage and easy movement for equipment (http://lacoste-stevenson.com.au/new-life-for-q-store/, accessed 2 Sept 2014). In essence, a large-span roof with overhead and perimeter light was required (Peter Blake, Architecture for the new world: The work of Harry Seidler, Horwitz, Sydney, 1973, p 102).

To meet the specific needs of his client, Seidler devised a creative solution that grew out of his modernist design philosophy that created a visually-striking and functional design for a utilitarian building. Seidler developed a triangular-framed tetrahedron roof structure, also known as a space frame, with 100 feet (30 metres) spans to

#### Item name: Former Q Store including interiors

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facilitate easy movement across the spaces. This frame was able to support a large roof area with only eight tapering columns interrupting the spaces. It used less material, was half the weight and more rigid that a conventional truss and girder system for spanning such large distances. The roof structure also enabled services to be easily inserted (Peter Blake, Architecture for the new world: The work of Harry Seidler, Horwitz, Sydney, 1973, p 102).

The building was used in 1970's marketing for Stewarts and Lloyds, the suppliers of the galvanised steel used in the building's construction. Marketing published in the Architecture in Australia journal indicated that the Q Store was the largest 'triodetic' roof system in Australia, spanning 3.5 acres and constructed of 33,000 steel tubes. The roof's steel tubes included some of the largest in diameter and gauge used in a triodetic system in the world, according to this record. The Australian licensee of this triodetic system was George Hudson Pty Ltd. (Architecture in Australia, April 1970, p 174)

The junction of the space frame members were formed by pressed and serrated steel tube ends fitted into extruded grooved aluminium cylindrical hub connectors, with die cast aluminium washer end bearing plates. This assembly was secured by a high tensile steel bolt (Peter Blake, Architecture for the new world: The work of Harry Seidler, Horwitz, Sydney, 1973, p 102). The roof system was assembled using rubber mallets to join the pressed and serrated steel tube ends into grooved hubs at the node points (Architecture in Australia, April 1970, p 174).

The roof frame incorporated superimposed monitors for natural lighting. The projecting roof fitted with sun shading devices enabled maximum internal light without the direct glare of the sun. Precast concrete was used for the exterior, with glass within and below the roof space frame. (Peter Blake, Architecture for the new world: The work of Harry Seidler, Horwitz, Sydney, 1973, p 102).

The building was estimated to cost \$1,983,400 (NSW Public Works Department, Annual Report, 1968-9, p 42). Since the new building was built for the state government, the NSW Government Printers Office exhaustively photographed the process of construction.

Seidler was later quoted describing the space frame structure as "an appropriate answer of industrial technology to this this problem...to result in enormous spans" and a "very rigid, very ingenious method". Seidler also described the object for the design was to "build a concrete building that is least labour-intensive as can possibly be devised". (Harry Seidler UNSW Talk 3, Consequence of Design and Detail, 24 April 1980, https://www.youtube.com/watch?v=u8a4DBftGGQ, accessed 9 July 2015)

Seidler's architectural drawings were later donated to the Mitchell Library including those for the Q store.

Harry Seidler subsequently used the space frame roof in his design for Grosvenor Place on George Street in Sydney at the rear of the building.

Later in his career, Seidler's interviews reveal he objected to defining the style of his architecture, opposed the use of the terms of 'international style', 'Bauhaus style' and 'modern style' and disagreed with the designation of styles for most twentieth-century architecture. In 1990 Seidler's recorded his view about the international style that "the aesthetic by-product or component of it was lost by people who just accepted it as an expediency...the truth of the matter is there's no such thing as a style. By its definition, it has to remain in flux. And the proof of the pudding is, I think, that with time things have changed to such an extent and if you look at the different architects that have practiced in the last five decades or so, different parts of the world, different technologies, different social or economic conditions, they produced architecture that is vastly different from each other". Later in the same interview Seidler further described his work as "...It would be absurd to say there's a style, there's a set of rules but suddenly technology's giving me three and four times the span but, what, is it still supposed to look the same? So my buildings look very different to the ones that make twenty foot spans." (Craig McGregor, Transcript of interview of Harry Seidler and Penelope Seidler, MS7949 collection - Oral History and Folklore collection, National Library of Australia, Bib id 6416295, 31 January 1990 and 11 February 1990)

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Item name: Former Q Store including interiors						
Location:	47-49 Bourke Road Al	exandria 2015			Sydney	
	In 1989 the 'post-war international style' was defined in the the key Australian architectural reference, 'A pictorial guide to identifying Australian architecture' (Apperly, Irving and Reynolds). In this reference, Harry Seidler is identified as a key Australian practitioner of this style. This reference defines the style with the attributes that "internationalism supplanted historicism", and that, "only with hindsight can it now be seen as a 'style". Harry Seidler's later interviews make no mention of specifically the 'post-war international style' defined by Apperly et. al. His views on style reflect the disparity of contemporary opinion and evolution of ideologies for Australian architecture during the late twentieth century.					
	In 2008 the bridge wh	ich originally conne	ected the store to th	e woolsheds beside Alex	andria canal was removed.	
	Although the building Lacoste + Stevenson, (http://lacoste-stevenso	was not heritage list designed the new w	ted at the time, the orks to respect Seid- for-q-store/, access		ed for the adaptation,	
Themes	• National theme 3. Economy		State theme Commerce		Local theme Warehouses	
	3. Economy		Industry		Warehouses	
Designer:	Harry Seidler & NSW	Government Archit	ect (1965-70 const	ruction), Lacoste+Steven	son (2009 conversion)	
Builder:	Unknown					
Year started:	1965	Year completed:	1970		Circa: No	
Physical description:		ing with high interr		eidler for the NSW Gove suring approximately 100	ernment. It comprises a ) metres and 3 bays wide	
		o an industrial build	ing, particularly the	e use of the tetrahedron s	ome impressive elements of tructural system for the	
	aggregate pre-cast con- overhanging eaves are	crete wall panels ser covered with a ribb	t behind tapered co ed metal fascia. U-	ne for the roof, concrete nerete columns along the shaped moulded glass pa ed by 10x4 pop-up skyli	perimeter. The nels at the top of the walls	
	The windows to the from four amenity and service			· ·	ed at the rear. Internally,	
	•		•	the woolsheds to the rea adria canal was removed	•	
	A concrete canopy gate	ehouse located at th	e 6A Huntley Stree	t entrance to the site was	also designed by Seidler.	
	The building has been adaptively reused as high-technology industry units by Goodman to the design of Lacoste + Stevenson Architects. The works for this conversion retained the integrity of Seidler's original design.					
Physical condition level:	Category: Individual building. Style: Post-war international. Storeys: One to three. External walls: Pre-cast concrete, glazed and perforated steel. Roof: Space frame supported by tapered concrete columns. <b>Physical condition</b> Good					

**Physical condition:** 

SHI number 5062442 Study number

Item name: Former Q Store including interiors						
Location:	47-49 Bourke Road Alexandria 2015		Sydney			
Archaeologica potential level	Not assessed					
	<ul> <li>1943 aerial shows former buildings on the site. 1</li> <li>building on the south-west quarter of the propert Barnes industrial site from 41-49 Bourke Road.</li> </ul>					
Modification dates:	Timeline of known dates for changes to the site:					
	18 October 1963 Conveyance, James Barnes Pty Ltd to Her Majes Road, for £180,000.	ty Queen Elizabeth II, of 4 acres 1 rood 35 p	erches on Bourke			
	1964-8 Harry Seidler designed the NSW Government St	pres building in Alexandria.				
	2008 Bridge connecting the store to the woolsheds bes	de Alexandria canal was removed.				
Recommended management:	2009 New owners, Goodman, adapted the building into high technology industry units. The building should be retained and conserved.					
management.	A Heritage Assessment and Heritage Impact State works being undertaken.	ment should be prepared for the building price	or to any major			
	All conservation, adaptive reuse and future develo ICOMOS Charter for Places of Cultural Significant		vith the Australia			
	Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes.					
	Original architectural features should be maintained	ed and conserved.				
	Avoid vertical additions to the building or other al features, internally or externally.	terations that will obstruct or dominate origin	nal architectural			
	Consider new uses for the building that will re-use former industrial character as an integral part of the compliance with Australian building standards, she identifiable.	e new use. Alterations for a new use, includi	ng changes for			
Management:	Management category Statutory Instrument	Management name List on a Local Environmental Plan (LEP)				
Further comments:	Heritage Inventory sheets are often not comprehen Inventory sheets are based on information availab buildings. Inventory sheets are constantly updated inventory sheet with little information may simply recently: it does not mean that items are not signif preparation of development proposals for heritage Assessments and Conservation Management Plans prior to submitting development applications.	e, and often do not include the social history l by the City as further information becomes indicate that there has been no building wor icant. Further research is always recommend items, and is necessary in preparation of Her	of sites and available. An k done to the item led as part of ritage Impact			

	Item name:	Former Q Store including interiors					
	Location:	47-49 Bourke Road Alexandria 2015	Sydney				
Ì	Criteria a): [Historical significance]	Purpose-built as a store for the New South Wales government in 1970, the Q Store represents the later period of industrial development in Alexandria for large-scale government warehousing along the Alexandra Canal.					
		This modern building demonstrates the next phase of government stores development following the World War II construction of large woolsheds along the canal located behind this site. It provides evidence of the continued need for government storage along the Alexandra Canal during the second half of the twentieth century from the last major phase of industrial development in southern Sydney before industry declined in the area.					
		The Q Store also demonstrates the development of modern Australian architecture as a rare exindustrial design in the work of prominent Australian architect, Harry Seidler.	cample of an				
	•	The Q Store forms part of one of the largest known collections of industrial and warehouse buin Australia, which records City of Sydney's past as one of only two historic industrial hearthat This collection of buildings provides evidence of Australia's twentieth century transformation industrialisation when Sydney became one of the largest industrialised cities in the South Pace. The Q Store has significant associations with Harry Seidler, an internationally renowned mode architect. It is a rare example of only three known industrial or warehouse buildings designed approximately 180 works in his career.	nds in Australia. 1 through ific. ernist Australian				
	[Aesthetic/	Architecturally, the Q Store represents a rare example of an industrial building designed by pr Australian architect, Harry Seidler, and a fine example of a warehouse in the post-war internal Store demonstrates Seidler's modernist design philosophy applied to an industrial building; on industrial buildings or warehouses in Seidler's career. The dynamic building structure illustrate creative solution for providing large open spaces for flexible storage and moving equipment a internal lighting, particularly the use of a tetrahedron structural system for the roof, tapering cr and the highlight glazing.	tional style. The Q le of only three es Seidler's nd glare-free				
		With its distinctive, visually-striking and cohesive architecture, the building makes an importative streetscape of Bourke Street. The building is a local local landmark in Alexandria, with few comparisons in the neighbourhood.					
	Criteria d): [Social/Cultural significance]		ome value to lso have value to				
	Criteria e): [Research significance]	This building provides an opportunity for understanding the development of modern industria and post-war technology, in particular the use of a space frame for the roof structure, the taper					
	Criteria f): [Rarity]	The Q Store is a rare example of a warehouse designed by the prominent Australian architect one of only three industrial or warehouses in his career.	, Harry Seidler;				
	Criteria g): [Representative]						
]	Intactness/Integrity:						

Sydney

Status: Completed

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Data entry: Data first entered: 05/08/2014

References:		Title	·. 1·.	Year
	Dr Terry Kass	Industrial and warehouse buildings research	-	2014
	Peter Blake	Architecture of the new world: the work of l	Harry Seidler	1973
	Richard Apperly, Robert Irving, Pe	ter A pictorial guide to identifying Australian a	chitecture (first pu	1994
	Lacoste + Stevenson	New Life for Seidler's Q Store		2010
	Scott Cumming	Chimneys and Change: Post European Envir	ronmental Impact in	1 2004
	Heritage Group NSW Department	of P Sheas Creek Woolsheds Conservation Mana	gement Plan	1999
	Craig McGregor	Transcript of interview of Harry Seidler and	Penelope Seidler,	1 1990
	Harry Seidler	Transcript of Harry Seidler UNSW Talk 3, 0	Consequence of De	1980
Studies:		Sydney Industrial & Warehouse Buildings Herita	Number ge '	<b>Year</b> 2014
Parcels:	Parcel code Lot number	Section number Plan code	Plan number	
Latitude:		Longitude:		
Location validity:		Spatial accuracy:		
Map name:		Map scale:		
AMG zone:		Easting:	Northing:	
Listing:		Title	Number	ListingDate
	City of Sydney Industrial and Ware Q Store	Heritage study Royal Australian Institute of Architects register	4703257	
	×	,		

Data updated: 03/08/2015

Date: 24/09/2015 Full report
This report was produced using the State Heritage Inventory application provided by the Heritage Division, Office of Environment and Heritage

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney



Caption:	The Q Store,	exterior (	(2014)	)
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#### Copy right:

- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34563e1b8a64e9e4210b949b58e59a4136c.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34563e1b8a64e9e4210b949b58e59a4136c.JPG

SHI number 5062442 Study number

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney





Caption: The Q Store, Bourke Road exterior (20	)14)
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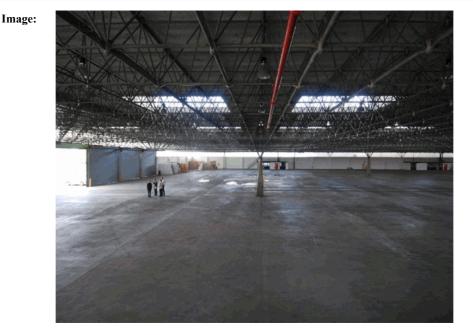
- Copy right: City of Sydney
- Image by: Claudine Loffi
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- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345dd872c53bf4747738a54491584297070.JPG

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

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Caption:	The Q Store, interior (2009)	

Copy right: Lacoste + Stevenson

Image by: Lacoste + Stevenson

### Image date:

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345f502c811aa7b4587929ae73524628930.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345f502c811aa7b4587929ae73524628930.jpg

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

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Caption: The	e Q Store,	carpark	interior	(2009)	
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- Copy right: Lacoste + Stevenson
- Image by: Lacoste + Stevenson

### Image date:

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- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345fb34660a6423476e830ab2dcc09568ac.jpg

### Item name: Former Q Store including interiors

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Caption: The Q Store, during construction in 1969, SLNSW, d2 3566	Caption:	The Q Store.	, during construction in	1969, SLNSW, d2 35663
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- Copy right: State Library of NSW
- Image by: Government Printing Office
- **Image date:** 29/01/1969

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a7d71951d65d4c589f513d95f7cd6f57.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a7d71951d65d4c589f513d95f7cd6f57.jpg

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney

Image:



Caption: The Q Store, during construction in 1969, SLNSW, d2 4517	Caption:	The Q Store.	durina	construction in	1969.	SLNSW.	d2	45177
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- Copy right: State Library of NSW
- Image by: Government Printing Office
- **Image date:** 03/09/1969

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3452db64c4c444d4204a913b93581e3aaad.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3452db64c4c444d4204a913b93581e3aaad.jpg

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### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Image:



Caption:	The Q Store, exterior, shortly after construction (1970), SLNSW, d2_39293
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Image by:	Government Printing Office
Image date:	07/10/1970
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a58a313765c6474880bae8f8d3201e87.jpg

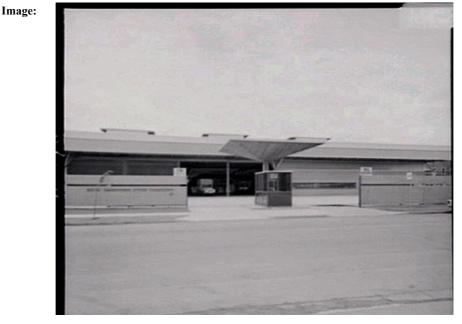
Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a58a313765c6474880bae8f8d3201e87.jpg

SHI number 5062442 Study number

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney



Caption:	Q Stores.	original	entrance in 19	971.	SLNSW.	d2 4	4429
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- Copy right: State Library of NSW
- Image by: Government Printing Office
- Image date: 01/12/1971

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3455f4099aff07342dabc4fc25743420aaf.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3455f4099aff07342dabc4fc25743420aaf.jpg

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney

Image:



- Caption: Q stores, rear, in 1969 shortly after construction showing bridge to wool stores, SLNSW, d2\_45575
- Copy right: State Library of NSW
- Image by: Government Printing Office
- **Image date:** 03/12/1969

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34518adf5f05a624974aef3fbc4f9f71c4f.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34518adf5f05a624974aef3fbc4f9f71c4f.jpg

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney

Image:



- Caption: Q stores, rear bridge to wool stores, in 1969 shortly after construction, SLNSW, d2\_45576
- Copy right: State Library of NSW
- Image by: Government Printing Office
- **Image date:** 03/12/1969

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3459522ac4dfd6648e78fea07d467233506.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3459522ac4dfd6648e78fea07d467233506.jpg

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

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Caption:	The Q Store, internal view, in 1969 shortly after construction, SLNSW, d2_43971
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Image date:	
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3450e033860131248fa9c0159af963b546b.jpg
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test3450e033860131248fa9c0159af963b546b.jpg

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney



Caption: Q stores, interior fitout, 1970, SLNSW, d2\_48871

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- Image by: Government Printing Office
- **Image date:** 01/05/1970

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a41a140fb24041578f7da2da18351d65.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a41a140fb24041578f7da2da18351d65.jpg

### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney



Caption:	Q Stores,	interiors,	in use	in 1971,	SLNSW, d	2_44427
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- Image date: 01/12/1971

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345cfd3e4cca2ad47be8ad26d42b6fe06bd.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345cfd3e4cca2ad47be8ad26d42b6fe06bd.jpg

#### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney



Caption: Q Stores, interiors, in use in 1971, SLNSW, d2\_44428

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- Image by: Government Printing Office
- **Image date:** 01/12/1971

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34502e7c1242b5d4608b2c1186408866d9a.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34502e7c1242b5d4608b2c1186408866d9a.jpg

#### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney





Caption:	Q Stores,	interiors,	under	construction	in	1969,	SLNSW,	d2	37047
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- Copy right: State Library of NSW
- Image by: Government Printing Office
- **Image date:** 01/04/1969

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3453118573842ee4840883fdf7a6f4515a4.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3453118573842ee4840883fdf7a6f4515a4.jpg

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#### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Caption: Architectural sections for the original building design published by Peter Blake in 1973

- Copy right: Peter Blake
- Image by: Harry Seidler
- **Image date:** 01/01/1973

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3454551572fbd9c4778b6a61648de54931d.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3454551572fbd9c4778b6a61648de54931d.jpg

SHI number 5062442 Study number

#### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Caption: Main floor plan for the original building design published by Peter Blake in 1973

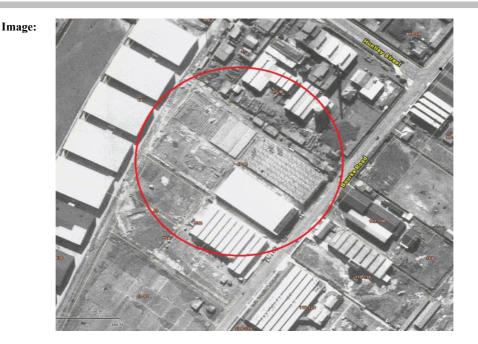
- Copy right: Peter Blake
- Image by: Harry Seidler
- **Image date:** 01/01/1973

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34543ba0bbab6c04fb0bbe7c1439479c052.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34543ba0bbab6c04fb0bbe7c1439479c052.jpg

#### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

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- Caption:
   1943 aerial photo showing buildings on the site before Q store, with an overlay showing land parcels

   Copy right:
   NSW Land and Property Information, SIX

   Image by:
   RTA

   Image date:
   01/01/1943

   Image number:
  - Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345e0df66eb5e274111a9173cfa67ec879a.png
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345e0df66eb5e274111a9173cfa67ec879a.png

SHI number 5062442 Study number

#### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Cantion	1956 detail sheet showing the site	e, circled, before construction of the Q Store
Caption.		

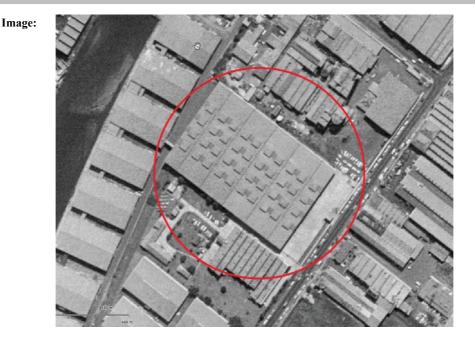
- Copy right: City of Sydney
- Image by: City of Sydney
- **Image date:** 01/01/1956

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345fb3b78aca8fe4c17aafa901931b85f51.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345fb3b78aca8fe4c17aafa901931b85f51.jpg

#### Item name: Former Q Store including interiors

Location: 47-49 Bourke Road Alexandria 2015

Sydney



- **Caption:** 1975 aerial photograph showing the constructed Q store, its roof, pop-up skylights and rear bridge
- Copy right: City of Sydney
- Image by: City of Sydney
- **Image date:** 01/01/1975

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345c7de43ae089246b584311d8b419ce9eb.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345c7de43ae089246b584311d8b419ce9eb.jpg

# Inventory 12

	Sydney	, City Council	SHI number <b>5062443</b> Study number
	Former Commonwealth Inc interiors	lustrial Gases oxygen factory and de	monstration block including
Location:	138-196 (160) Bourke Road A	lexandria 2015	Sydney
Address:	138-196 (160) Bourke Road		Planning: Sydney South
Suburb/nearest town:	Alexandria 2015		
Local govt area:			Parish:
	NSW Sydney Corporate Park, Comp	nonwealth Oxygen & Acetelyne Pty Ltd. C	County: IG, oxygen works, oxygen plant, demonstration build
Area/group/complex:			Group ID:
Aboriginal area:			
5		nd demonstration block buildings, as descri	bed in Svdnev Local Environmental Plan
Item type:			Category: Other - Manufacturing & Processing
	Multiple Owners	1 0 0	
Admin codes:	*	Code 2:	Code 3:
Current use:	Mixed use		
Former uses:	Factory and demonstration blo	ck	
Assessed significance:	-		ignificance:

Former Commonwealth Industrial Gases oxygen factory and demonstration block nteriors	<b>c</b> including
38-196 (160) Bourke Road Alexandria 2015	Sydney
Built in 1939-1943 for the major Australian compressed gas manufacturers, Commonwealth the two extant buildings on this site represent the large-scale industrial development of Alexa mid-twentieth century. The former oxygen factory and demonstration block represent the two substantial buildings surviving from the Commonwealth Industrial Gases use of this site from 1970s.	ndria during the most intact
The buildings are historically significant for their connection to the Australian manufacturing gases used for medical, industrial, construction and commercial purposes throughout New So 1939 to the 1970s. The factory provides evidence of the twentieth-century development of sc technology in Australia, in particular the growing use of compressed gases for industry, medic construction, and associated innovations. Innovative techniques and products made at this fact humidicribs for premature babies, new methods for joining and cutting metal and spray-paint produced at this factory was essential for welding and flame-cutting of metals. The factory al source of products used in everyday Australian lives, such as the carbon dioxide for making s	uth Wales from ience and cal care and etory included ing. The acetylene so represents the
The scale of the buildings, the period of their construction, and the commissioning of architece indicate the importance of gases as a key material for industry and construction at this time. These buildings record the growing use of gasses during the twentieth century.	-
Architecturally, these buildings represent good examples of the mid-twentieth century indust prominent architects, Robertson and Marks. They also demonstrate buildings purpose-design manufacturing process and demonstration of technology using these gases. The design of bot typical features of the inter functionalist-style applied to utilitarian buildings including geomet that are robust, simple and solid, face brick walls and sawtooth roofs concealed behind a para generally unadorned as is typical for utilitarian buildings, the face-brick walls are relieved by of decorative brickwork for the parapet wall, string courses, and evenly spaced downpipes an funnels.	ed to suit the gas h buildings exhibit etric building forms pet wall. While geometric patterns
The later conversion of the factory and demonstration block and new buildings constructed of Sydney Corporate Park have retained the overall integrity of these two buildings.	n this site for
As a significant employer in the local area for its operations from 1939 to the 1970s, the site are likely to have social value to its former workers and their families, which historic records strong and active community.	
In terms of research potential, the buildings could provide information about the evolving descentury gas manufacturing plants, in particular for oxygen production. The design of these tw also yield further information on the work of the noted architectural firm, Robertson & Marks of their work within the first fifty years of practice.	vo buildings could
The former Commonwealth Industrial Gases buildings forms part of one of the largest known industrial and warehouse buildings of its kind in Australia, which records City of Sydney's patwo historic industrial heartlands in Australia. This collection of buildings provides evidence twentieth century transformation through industrialisation when Sydney became one of the largest in the South Pacific.	ast as one of only of Australia's
The former Commonwealth Industrial Gases factory and demonstration block are of local her in terms of their historic, association, aesthetic, rarity and representative values in the local ge	

SHI number 5062443 Study number

#### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney

**Historical notes** Early development of the locality: **of provenance:** 

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

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#### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Robertson & Marks history:

The prominent Sydney architects, Robertson & Marks, was established in 1892 and continues to practice today as Robertson & Marks Pty Ltd. The original partners were George Birrell Robertson and Theodore John Marks. Struan Robertson inherited both partners' shares upon their deaths in 1913 and 1941. John Trevor Guy joined the practice in 1940.

Much of the practice's early work was connected with racing due to the connections of the partner, Theodore Marks. Marks was a member of the Australian Jockey Club (AJC) from 1893, an original shareholder in the Victoria Park Racing and Recreation Grounds Co Ltd for pony-racing, and chairman of the Rosehill Racing Club between 1919-41. Marks designed many of the buildings and alterations at Randwick and Warwick Farm Racecourses for the AJC in 1922 and the since demolished Leger Stand at Rosehill (1920), amongst others.

Robertson & Marks designed a large number of significant buildings in Sydney. Between 1892 and 1941 these works included the: Edwards Dunlop & Dunlop Warehouses, Kent Street (1901); Briscoe & Co Ltd bulk store, Ultimo (1901); W. Horace Friend Warehouse, Clarence Street (1906); Oswald Sealy Building, Clarence Street (1906); Richardson & Co Emporium, Armidale (1908); the original Challis House, Martin Place (1908); Perpetual Trustee Co, Hunter Street (1917); Daily Telegraph Building, King Street, with Samuel Lipson (1912-16,1934); Prouds Ltd, Pitt Street (1920); Hotel Australia Rowe Street wing (1923); Warwick Farm Racecourse grandstand (1925), Bank of NSW head office, Martin Place (1927-32); Mercantile Mutual Building, Pitt Street (1929); Asbestos House, York Street, with John Reid & Sons (1930-5); and the AWA Building, York Street, as Robertson, Marks & McCredie with Morrow & Gordo (1937-39).

In its earlier days, the practice also designed numerous houses for the elite of Sydney society, including: 'Goondee', Wahroonga (1897); 'Glensley', Turramurra (1897); 'Gorawin', Killara (1903); Brunton house, Bellevue Hill (1904); 'Heverlee', Wahroonga (1904); and 'Wanstead' (Gowing), Lindfield (1911).

The architectural styles of the firm changed both with time and the building type. Their major commercial buildings in the early years of the century were bold Federation warehouses with Romanesque arches at either ground or top floor level. The arches gave way to a simple rectilinear, trabeated facade treatment in later warehouses and offices. During the inter-war period, the firm's large Sydney buildings demonstrated a number of inter-war styles including the commercial palazzo style (Farmer & Co. department store, Market Street, 1920, and Gowings Bros Building, Market Street, 1912-29, with C.H. Mackellar), inter-war functionalist (S.H. Hoffnung & Co. Building, 1939, with Samuel Lipson) and restrained inter-war Mediterranean styles (Bondi Surf Pavilion, Bondi Beach, 1930 with L. McCredie). (Robertson, 2011)

Historical summary of the site:

By the 1930s, gas became a key material used for modern industry and construction. The Commonwealth Industrial Gases works at Bourke Road, Alexandria, was the major plant producing compressed gases for medicine, industry, construction and commerce in NSW from 1939 until about 1975. The site was a key component of the company's network of factories in major cities across Australia. The subject two factory buildings were constructed between 1939 and 1943 and extended in the 1940s-1960s for the Commonwealth Industrial Gases works factory. The main brick building was constructed as an oxygen factory, also described as an oxygen plant or oxygen works. The adjacent smaller building was constructed as demonstration block.

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#### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

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The main gases produced at this factory included oxygen, acetylene, nitrogen, argon, hydrogen and compressed dry air. The acetylene produced at this factory was essential for welding and flame-cutting of metals. The introduction of acetylene welding was a major step forward. It replaced the slow and tedious process of riveting for joining metal, ensuring quicker production and the final product was lighter without the additional weight of the rivets. The oxygen produced by Commonwealth Industrial Gases had numerous applications, including medicine and safety breathing apparatus.

In January 1939, the Commonwealth Oxygen and Acetylene Pty Ltd, the NSW branch of Commonwealth Industrial Gases Ltd, moved to this new site from their original works in Foy Street, Balmain (Alexandria: "The Birmingham of Australia" p 84-6). The Certificate of Title for 10 acres on the eastern side of Bourke Street south of Doody Street was issued to Commonwealth Oxygen & Acetylene Pty Ltd on 28 January 1938 (CT 4904 f 22).

Construction began shortly afterwards. On 15 February 1938, it was announced that contracts had been let to erect 'a large factory premises at Alexandria' for Commonwealth Oxygen and Acetylene Pty Ltd (SMH, 15 Feb 1938 p 7). The contract was let by architects Robertson and Marks in November 1939 to S C Molineaux Pty Ltd, Roseville, to erect three buildings at Alexandria for Commonwealth Oxygen and Acetylene Pty Ltd (SMH, 14 Nov 1939 p 3). In December 1939, they let contracts to S C Molineaux, Roseville, to erect a demonstration and showroom for the company (SMH, 12 Dec 1939 p 5). Robertson and Marks was a noted architectural firm, which designed numerous buildings around Sydney and NSW. A number of the buildings they have designed are inscribed on the Australian Institute of Architecture register of significant twentieth century buildings.

By 1943, an administrative office block, oxygen works, store, laboratory, demonstration room, garages, staff lunchrooms and change facilities had been constructed on the site.

The company employed 200 people by 1943. It supplied equipment for gas and electric welding, as well as gases for medical purposes, mine rescue work apparatus and carbon dioxide for soda production. Their company slogan was "everything for the welder from one source of supply" (Alexandria: "The Birmingham of Australia" p 84-6). A 1943 aerial photograph records the office building located on Bourke Road, a sawtooth roofed building on Doody Street and the two subject buildings with sawtooth roofs located further within the site (1943 Aerial photo SIX, LPI).

The 1945 workplace survey records that Commonwealth Oxygen and Acetylene Pty Ltd used electrical equipment rated at 1118 hp to produce industrial gases, and that the company employed 131 staff at this time (SRNSW 7/6847).

The company name was changed to CIG (New South Wales) Pty Ltd by 30 July 1947 (CT 4904 f 22). On 18 April 1975, the property on Bourke Road was transferred to Commonwealth Industrial Gases Ltd (CT 4904 f 22).

The company continued to expand and add to the manufacturing plant on the site. An application for new buildings to manufacture acetylene gas was submitted on 23 September 1949. Robertson and Marks also designed these additional buildings. On 31 July 1950, they proposed to construct new buildings with works valued at £68,000. On 5 September 1950, Robertson and Marks proposed four new store buildings. These works were estimated at £26,816. F T Eastment and Sons applied on 15 April 1957 to build a new office block at an estimated cost of £222,420 (138 Bourke Street, Street Cards, NSCA).

1950 and 1954 site plans that accompanied two of these applications (for the 4 new store buildings in 1950, and the medical gases building for oxygen and acetylene works in 1954) record the footprint and function of buildings constructed on this site at this time. This includes the two subject buildings noted in these drawings as 'oxygen works' or 'oxygen factory' and 'demonstration block' or 'demonstration building'. The drawings note the oxygen factory then contained a cylinder filling dock at the northern end, a southern extension, the engine room in the main volume of the factory, and an intercepting pit located on its eastern edge. At the rear of the demonstration building, a path then connected it to the office building fronting Bourke Road.

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Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney

Other buildings shown as constructed by 1954 include the office building fronting Bourke Road, two store buildings fronting Doody Street, smaller services buildings to the east of the oxygen works, a long narrow garage and cylinder processing building to the south east of the oxygen works, as well as other buildings along the eastern property boundary and either side of the canal.

Photographs from the 1960s illustrate how the company documented and promoted the new technology developed at this site and how it demonstrated its products to the public, presumably within the subject demonstration block. The 1960s photos also illustrate how the company was an active community of workers, scientists and their families with company sports teams, family and other social events sponsored by the company.

On 28 November 1966, the company proposed extensions to the liquid oxygen plant with works valued at \$320,000.

On 16 October 1973, the company applied to erect a fluorocarbon facility worth \$12,500 (138 Bourke Street, Street Cards, NSCA).

Historic aerial photos record that the factory and demonstration were both approximately doubled in length with extensions to the south after 1943 and prior to 1975. These additions extended the original 8 northern sawtooth roof forms of the main factory building and the 6 northern sawtooth roof forms of the demonstration building continuing the same building form. While the main factory building retained this extension, all but two of the extra southern bays for the smaller stores building were demolished before 1979.

In 1985, F Hannan (Properties) Pty Ltd became a registered proprietor of the land on 11 April (CT 4904 f 22). On 11 June 1985, the council received an application for the construction of a new printing factory. F Hannan Properties applied on 16 February 1987 to erect a warehouse to store paper reels. On 18 October 1990, it applied for additions to create a staff training area and gymnasium worth \$350,000 (138-188 Bourke Street, Street Cards, NSCA).

Historic aerial photos record that substantial new buildings were constructed on the site by 1989. These buildings infilled open space or replaced smaller free-standing buildings located to the immediate north, east and south of the main oxygen factory building.

Themes:	National theme 3. Economy	State theme Commerce	<b>Local theme</b> Warehouses
	3. Economy	Industry	Warehouses
	3. Economy	Industry	Activities associated with the n
Designer:	Robertson & Marks		

Builder: Molineaux Pty Ltd, Hutcherson Bros

Year started: 1939

Year completed: 1969

Circa: Yes

	Former Commonwealth Industrial Gases oxygen factory and demonstration block interiors	including
Location:	138-196 (160) Bourke Road Alexandria 2015	Sydney
Physical description:	The two subject buildings on the larger former industrial site were built in 1939-43 and extend over the next two decades for Commonwealth Industrial Gases, including the larger building constructed as an oxygen factory and the smaller building constructed as a demonstration bloc	originally
	The former factory is double-storey in height with a single-storey section along its western ler measures approximately about 115 metres long and 25 metres wide. The smaller demonstratio is a smaller-scale single-storey version of the same building typology, with the addition of can above original openings.	n block to the west
	Both buildings were constructed in stages from the north to the south. The earlier northern sec buildings are contained under the 8 northern sawtooth roof forms of the factory building and the sawtooth roof forms of the demonstration block.	
	The southern extensions to these buildings during the 1940s-1960s continued the same building roofs and brick walls. The former factory retained its southern extensions. The smaller demon retains two of the additional bays.	
	Both buildings demonstrate typical features of functionalist style industrial buildings from the century including geometric building forms that are robust, simple and solid, face brick walls concealed behind a parapet wall. While generally unadorned as is typical for utilitarian building walls are relieved by geometric patterns of decorative brickwork for the parapet wall, string conspaced downpipes and rainwater funnels. The absence of windows in the main factory building original custom-design for gas production and demonstration, where windows were excluded of explosion.	and sawtooth roofs ngs, the face-brick purses, and evenly g reflects its
	Alterations and additions to both buildings for new uses have maintained the integrity of the b Window and door frames have generally been replaced.	uilding designs.
	Roofs, foundations and floor structures of the buildings have not been inspected by the authors	5.
Physical condition level:		Brick.
Physical condition: Archaeological potential level:	Not assessed	
Archaeological potential Detail:		

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item name.	Former Commonwealth Industrial Gases oxygen facto interiors	ry and demonstration block including
Location:	138-196 (160) Bourke Road Alexandria 2015	Sydney
odification dates:	Timeline of known dates for changes to the site:	
	28 January 1938 Certificate of title for 10 acres on the east side of Bourke Stree Oxygen & Acetylene Pty Ltd	et south of Doody Street issued to Commonwealth
	15 February 1938 Contracts let to erect 'a large factory premises at Alexandria' f	for Commonwealth Oxygen and Acetylene Pty Ltd
	14 November 1939 Contracts let by architects Robertson and Marks to S C Moline Alexandria for Commonwealth Oxygen and Acetylene Pty Lto	
	12 December 1939 Contracts let by architects Robertson and Marks to S C Moline showroom for Commonwealth Oxygen and Acetylene Pty Ltd	
	January 1939 Commonwealth Oxygen and Acetylene Pty Ltd moved to a ne Road Alexandria from their works in Foy Street, Balmain	w site at the corner of Doody Street and Bourke
	1943 Aerial photo shows office building on Bourke Road, the subject another along Doody Street	ct two buildings with sawtooth roofs behind, and
	1945 Workplace survey showed Commonwealth Oxygen and Acety 1118 hp to produce industrial gases and had 131 employees	lene Pty Ltd used electrical equipment rated at
	30 July 1947 Name of company changed to CIG (New South Wales) Pty Lte	d
	9 May 1949 Application by Robertson and Marks for additions to the engir	ne room worth £34,000
	23 September 1949 Application for new buildings to manufacture acetylene gas	
	31 July 1950 Application by Robertson and Marks for new buildings worth	£68,000
	5 September 1950 Application by Robertson and Marks for 4 new store buildings	s worth £26,816
	4 October 1950 Application to erect 4 new store buildings	
	8 June 1951 Application for second extension to engine room worth £60,00	00
	4 June 1954 Application for extension to liquid oxygen room	
	23 August 1954	

Item name:	e: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors				
Location:	138-196 (160) Bourke Road Alexandria 2015	Sydney			
	Application for new medical gases building worth £34,000				
	24 September 1954 Application for additions to acetylene filling building				
	15 November 1954 Application for additions to acetylene generator house worth £12,000				
	9 May 1955 Application by Robertson and Marks for new bulk store worth £40,000				
	27 April 1956 Application for new office building worth £3000				
	15 June 1956 Application for additions to garage building				
	13 November 1956 Application for additions to oxygen factory worth £8,500				
	15 April 1957 Application by F T Eastment and Sons for new office block worth £222,420				
	23 April 1957 Application for extensions to garage and workshop worth £14,500				
	16 April 1959 Application for extensions to acetylene filling building worth £10,500				
	8 February 1960 Application for additions to medical gases building worth £5,000				
	24 June 1960 Application for additions to amenities building worth £9,500				
	11 July 1963 Application for extensions to factory worth £16,000				
	11 March 1964 Application for additions to technical centre worth £16,000				
	23 June 1966 Application by R Gibson for office extensions worth \$80,000				
	5 July 1966 Application by R Gibson for additions worth \$40,000				
	28 November 1966 Application for extensions to liquid oxygen plant worth \$320,000				
	29 August 1967 Application by R A Findlay for alterations to form a canteen worth \$55,000				
	6 September 1967				

Item name:	Former Commonwealth Industrial Gases oxygen factory and interiors	d demonstration block including
Location:	138-196 (160) Bourke Road Alexandria 2015	Sydney
	Application by R Gibson for factory additions worth \$30,000	
	2 April 1968 Application by R A Findlay for alterations worth \$8,000	
	25 March 1969 Application for extensions to building worth \$10,000	
	27 May 1970 Application by Robin Gibson, architects, for extension to existing sto	pre worth \$192,000
	10 April 1972 Application for extensions to stores worth \$32,500	
	11 January 1973 Application to erect a helium liquefaction building worth \$25,000	
	16 October 1973 Application for erect fluorocarbon facility worth \$12,500	
	28 August 1974 Application for alterations worth \$8000	
	18 April 1975 Ownership transfer to Commonwealth Industrial Gases Ltd	
	26 November 1975 Application for new retail shop worth \$40,000	
	19 May 1976 Application for alterations and additions worth \$80,000	
	11 April 1985 Ownership transferred to F Hannan (Properties) Pty Ltd	
	11 June 1985 Application to erect new printing factory	
	16 February 1987 Application by F Hannan Properties to erect warehouse to store pape	er reels
	18 October 1990 Application by F Hannan Properties for additions to create staff train	ing area and gymnasium worth \$350,000

	Item name:	Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors			
	Location:	138-196 (160) Bourke Road Alexandria 2015		Sydney	
Ì	Recommended management:	Retained and conserve the two subject buildings.			
		A Heritage Assessment and Heritage Impact Statem for the building prior to any major works being und		hould be prepared	
		All conservation, adaptive reuse and future developed ICOMOS Charter for Places of Cultural Significance		ith the Australia	
		Do not paint or render unpainted brickwork.			
		Brick finishes, parapet wall, relief brickwork, patter original building features should be maintained and		hood and other	
		Consider new uses for the buildings that will re-use industrial character as an integral part of the new us compliance with Australian building standards, show identifiable.	e. Alterations for a new use, including chan	nges for	
	Management:		Ianagement name st on a Local Environmental Plan (LEP)		
		Heritage Inventory sheets are often not comprehens. Inventory sheets are based on information available, buildings. Inventory sheets are constantly updated b inventory sheet with little information may simply i recently: it does not mean that items are not signific preparation of development proposals for heritage it Assessments and Conservation Management Plans, prior to submitting development applications.	and often do not include the social history y the City as further information becomes a ndicate that there has been no building wor ant. Further research is always recommender ems, and is necessary in preparation of Her so that the significance of heritage items can	of sites and available. An k done to the item ded as part of ritage Impact an be fully assessed	
	Criteria a): [Historical significance]	<ul> <li>Built in 1939-1943 for the major Australian compressed gas manufacturers, Commonwealth Industrial Gases,</li> <li>I the two extant buildings on this site represent the large-scale industrial development of Alexandria during the</li> </ul>			
		The buildings are historically significant for their c gases used for medical, industrial, construction and 1939 to the 1970s. The factory provides evidence of technology in Australia, in particular the growing u construction, and associated innovations. Innovativ humidicribs for premature babies, new methods for produced at this factory was essential for welding a source of products used in everyday Australian live	commercial purposes throughout New Sou f the twentieth-century development of scie se of compressed gases for industry, medic e techniques and products made at this fact joining and cutting metal and spray-paintin nd flame-cutting of metals. The factory also	ath Wales from ence and cal care and ory included ng. The acetylene o represents the	
		The scale of the buildings, the period of their constr indicate the importance of gases as a key material f these buildings record the growing use of gasses du	or industry and construction at this time. The	-	
		The former Commonwealth Industrial Gases buildi industrial and warehouse buildings of its kind in Au two historic industrial heartlands in Australia. This twentieth century transformation through industrial cities in the South Pacific.	istralia, which records City of Sydney's par collection of buildings provides evidence of	st as one of only of Australia's	

SHI number 5062443 Study number

	Former Commonwealth In interiors	ndustrial Gases oxygen factor	y and demonstrat	ion block includi	ng
Location:	138-196 (160) Bourke Road	Alexandria 2015		Sydney	
[Historical	associated welding, humidicri	ations with the Commonwealth In- bs and other equipment they manu ew South Wales from 1939 until ap	factured for medical		
*- <u>B</u> 1	The building designs ares asso	ociated with the prominent archited	ctural firm of Robert	son & Marks.	
Criteria c): [Aesthetic/ Technical significance]	former oxygen factory and de industrial work of prominent a	ving on this site from the Commor monstration block, represent good architects, Robertson and Marks. T gas manufacturing process and den	examples of the mic	d-twentieth century te inter-war building	gs
	prominent architects, Roberts industrial buildings including sawtooth roofs concealed beh buildings, the face-brick walls	gs represent good examples of the on and Marks. Both buildings exhi geometric building forms that are ind a parapet wall. While generally s are relieved by geometric pattern aced downpipes and rainwater funr	ibit typical features of robust, simple and s y unadorned as is typ s of decorative brick	of functionalist-style olid, face brick wal pical for utilitarian	e ls and
Criteria d): [Social/Cultural significance] Criteria e):	Sydney Corporate Park have a Social significance requires fi local area from 1939 to the 19 of the Commonwealth Indust community of workers, scient sponsored by the company. Research potential requires fu	ctory and demonstration block and retained the overall integrity of the urther study to ascertain its value t 970s, the site and these buildings a rial Gases, CIG, and their families tists and their families with compa	ese two buildings. to communities. As a tre likely to have soc . Historic records su iny sports teams, fan could yield informat	a significant employ ial value to former ggest CIG had an ac nily and other social ion about the evolv	er in the workers ctive events
[Research	design of twentieth century ga	as manufacturing plants, in particu	lar for oxygen produ	iction.	
significance]	The design of these two build	inco aculd also wield further inform	nation on the work	f the noted erabited	turo1
Criteria f): [Rarity]	firm, Robertson & Marks, and	ings could also yield further inforr I the evolution of their work within most extant substantial buildings f	n the first fifty years	of practice.	
[Representative]	the mid-twentieth century, inc of Robertson and Marks archi	ndustrial Gases buildings represen dustrial buildings designed in the in itects.	e ,	e .	
ntactness/Integrity:	Largely intact externally				
References:	<b>Author</b> Dr Terry Kass	<b>Title</b> Industrial and warehous	e buildings research		
			e	- site history	<b>Year</b> 2014
	Hickson, Jack	Aerial photographs, Cor	nmonwealth Industr	ial Gases (CIG), Al	2014 1964
	Alexandria (N.S.W.) Municipa	al Counc Alexandria, "The Birmin	nmonwealth Industr ngham of Australia"	ial Gases (CIG), Al	2014 1964 1943
			nmonwealth Industr ngham of Australia"	ial Gases (CIG), Al	2014 1964
Studies:	Alexandria (N.S.W.) Municipa Ian Gregory little Author Tit	al Counc Alexandria, "The Birmin Robertson & Marks Arc	nmonwealth Industr ngham of Australia" hitects 1892-1941	ial Gases (CIG), Al 75 years of progres Number	2014 1964 1943 1975 Year
	Alexandria (N.S.W.) Municipa Ian Gregory little Author Tit	al Counc Alexandria, "The Birmin Robertson & Marks Arc tle ty of Sydney Industrial & Warehou	nmonwealth Industr ngham of Australia" hitects 1892-1941	ial Gases (CIG), Al 75 years of progres Number	2014 1964 1943 1975 Year
	Alexandria (N.S.W.) Municipa Ian Gregory little Author Tin City Plan Heritage Cit Parcel code Lot number	al Counc Alexandria, "The Birmin Robertson & Marks Arc tle ty of Sydney Industrial & Warehou	nmonwealth Industr ngham of Australia" hitects 1892-1941 use Buildings Herita <b>Plan code</b>	ial Gases (CIG), Al 75 years of progres Number ge { Plan number	2014 1964 1943

This report was produced using the State Heritage Inventory application provided by the Heritage Division, Office of Environment and Heritage

Item name:	Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors				
Location:	138-196 (160) Bourke Road Alexandria 2015 Sydney				
Map name:			Map scale:		
AMG zone:		Easting:	Northing:		
Listing:	Name City of Sydney Industrial and Ware	Title Heritage study	Number	ListingDate	
Data entry:	Data first entered: 05/08/2014	Data updated: 06/0	08/2015 Stat	us: Completed	

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney

Image:



- Caption: Former oxygen factory
- Copy right: City of Sydney
- Image by: City Plan Heritage
- **Image date:** 22/08/2013

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3451335ee1d28b040f597a2c423a95be571.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3451335ee1d28b040f597a2c423a95be571.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



Caption:	Northern end	of former	oxygen factory
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- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 03/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34514798630081e4885ad40628458733b5c.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34514798630081e4885ad40628458733b5c.JPG

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



- Caption: Former demonstration block
- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 03/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34567cfcdedfa8140dcb2e284b6b08d23c4.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34567cfcdedfa8140dcb2e284b6b08d23c4.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



Commonwealth Industrial Gases oxygen factory and demonstration block circled in red
Google maps with City Plan Heritage mark-up
http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34565c0119e6dd14407999ebb6df2f66efc.jpg
http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test34565c0119e6dd14407999ebb6df2f66efc.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



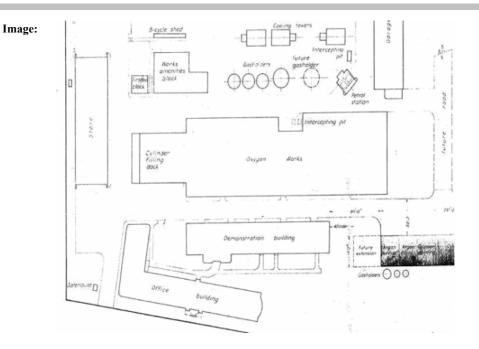
Caption:	1943 aerial of site showing buildings before southern additions with street names overlaid
Copy right:	City of Sydney
Image by:	RTA
Image date:	01/01/1943
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3455e987cfc5361426ca96cbb9e69697698.png
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test3455e987cfc5361426ca96cbb9e69697698.png

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



Caption: Extract of 1954 site plan showing the footprint and function of the subject buildings

#### **Copy right:**

- Image by: Robertson & Marks (attributed)
- **Image date:** 03/08/1954

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345969d19bc6fa04c17941136077346aafd.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345969d19bc6fa04c17941136077346aafd.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



- **Caption:** 1956 detail sheet showing subject buildings and other buildings on part of the CIG site at this time
- Copy right: City of Sydney
- Image by: City of Sydney
- **Image date:** 01/01/1956

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a4abc62c19864e56906a05c245aac36c.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a4abc62c19864e56906a05c245aac36c.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



Cantion:	1964 aerial pl	hotograph o	of the si	ite from	the west
Caption.		notograph			

- Copy right: City of Sydney
- Image by: Hickson, Jack
- **Image date:** 01/01/1964

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345720bbd1847a94c90baa6a75c6ac257b4.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345720bbd1847a94c90baa6a75c6ac257b4.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



Copy right:	State Library of NSW
Image by:	Jack Hickson, Australian Photographic Agency - 13434
Image date:	18/10/1962
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a482ce1dfafb4d13b4f8b04b369dc259.jpg

Caption: 1962 image of CIG hydrogen cylinders showing south end of subject buildings

Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a482ce1dfafb4d13b4f8b04b369dc259.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



- Caption: 1962 image of CIG hydrogen cylinders on the site
- Copy right: State Library of NSW
- Image by: Jack Hickson, Australian Photographic Agency 13435
- **Image date:** 18/10/1962

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34549ce083b0d0943d89610703e49161793.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34549ce083b0d0943d89610703e49161793.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



- Caption: Liquid nitrogen tanker at the CIG factory in 1962
- Copy right: State Library of NSW
- Image by: Australian Photographic Agency 13556
- Image date: 18/10/1962

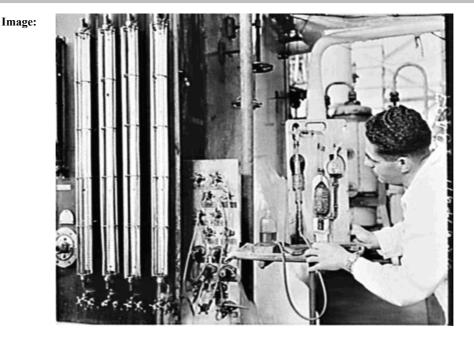
- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345f451059a14d94648973a40a3ae89ee78.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345f451059a14d94648973a40a3ae89ee78.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



- Caption: Oxygen testing at CIG site in 1962
- Copy right: State Library of NSW
- Image by: Jack Hickson, Australian Photographic Agency 13437
- Image date: 18/10/1962

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345c828ab47293a41549cedc821833243f2.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345c828ab47293a41549cedc821833243f2.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Image:

Sydney



- Caption: Vertical welding machine at CIG site in 1963
- Copy right: State Library of NSW
- Image by: Jack Hickson, Australian Photographic Agency 13664
- **Image date:** 16/01/1963

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34567bc6b0bfb27446da049a26994695331.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34567bc6b0bfb27446da049a26994695331.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



Caption:	CIG tour and demonstration in 1964 for Australian Association of National Advertisers
Copy right:	State Library of NSW
Image by:	Jack Hickson, Australian Photographic Agency - 16270
Image date:	29/04/1964
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3459d9bbe17434b4e0781936860bd19d6e7.jpg
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP

P/Thumb\_test3459d9bbe17434b4e0781936860bd19d6e7.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney

Image:



- Caption: New premature baby ward at Crown Street Women's Hospital using CIG humidicribs & other CIG equipment
  Copy right:
- Image by: Jack Hickson, Australian Photographic Agency 13409
- **Image date:** 17/10/1962

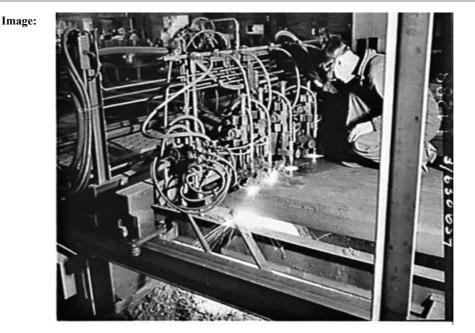
- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345ba5878d1d8da42dfa5ba6199dd15d6dd.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345ba5878d1d8da42dfa5ba6199dd15d6dd.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



Caption. GIG Oxyacetylene culling plant in use in 1305 at Luke Mulas, 55 O Nioruan Stree	Caption:	CIG oxyacetylene cutting plant in use in 1963 at Luke Muras, 55 O'Riord	dan Street
--	----------	---	------------

- Copy right: State Library of NSW
- Image by: Australian Photographic Agency 14288
- **Image date:** 19/06/1963

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3451630c54183ae4ad5a09372af393bb49d.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3451630c54183ae4ad5a09372af393bb49d.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



Caption: 1962 Christmas part	v for employees children
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- Copy right: State Library of NSW
- Image by: Jack Hickson, Australian Photographic Agency 13608
- **Image date:** 14/12/1962

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3459c1e3563a13e421387aeda41ef9464c2.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3459c1e3563a13e421387aeda41ef9464c2.jpg

SHI number 5062443 Study number

### Item name: Former Commonwealth Industrial Gases oxygen factory and demonstration block including interiors

Location: 138-196 (160) Bourke Road Alexandria 2015

Sydney



- Caption: Postcard showing roof of Commonwealth Oxygen & Acetelyne Pty Ltd's building in Alexandria, c1939
- Copy right: Powerhouse Museum
- Image by: Unknown
- **Image date:** 01/01/1939

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345445bb364756940b4b85e5c4d6cbf208a.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345445bb364756940b4b85e5c4d6cbf208a.jpg

# Inventory 13

Sydney

#### Item name: Electricity Substation No. 117 including interiors

Location:	16	Euston Road	Alexandria 2015	
-----------	----	-------------	-----------------	--

Address:	16 Euston Road			Planning:	Sydney South
Suburb/nearest town:	Alexandria 2015				
Local govt area: State: Other/former names:					Alexandria Cumberland
Area/group/complex:				Group	ID:
Aboriginal area:	Eora				
Curtilage/boundary:	As described in Sydney Local	Environmental Plan			
Item type:	Built	Group: Utilities - Elec	tricity Catego	ory: Electri	icity Transformer/Substation
Owner:	State Government				
Admin codes:		Code 2:	Cod	le 3:	
Current use:	Electricity substation				
Former uses:	Electricity substation				
Assessed significance:	Local		Endorsed significat	nce:	

#### Item name: Electricity Substation No. 117 including interiors

Location: 16 Euston Road Alexandria 2015

Sydney

Statement ofBuilt in 1934 to supply electricity for the Australian Window Glass Co factory, Electricity Substation No. 117significance:represents a surviving example of the original network of more than 360 substations built by Sydney Municipal<br/>Council from 1904 to 1936, which first supplied electricity to Sydney's industries and houses. The period and<br/>location of the substation records the expansion of Sydney's electricity network and the growth of electricity use<br/>in Alexandria. The building also marks the major changes electricity brought for Alexandria's growth,<br/>development and population. As the most intact surviving building from the surrounding site's former industrial<br/>use, the substation is also a rare remnant of the substantial Alexandria factory for Australian Window Glass Co.

Aesthetically, the building demonstrates the characteristic modest form, quality of design and construction for Sydney's substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.

Electricity Substation No.117 is a representative example of a simply detailed, purpose-designed and built substation from the inter-war period. It demonstrates typical characteristics of the stripped classical style applied to a utilitarian building, including the heavy geometric massing, symmetry of the main building, roof form concealed behind a parapet wall, emphatic portal, simple surfaces and reference to classical columns in the stepped and fluted entrance recess. As is common for this style, Art Deco elements are also found in the decorative features including the geometric brick relief ornamentation along the parapet wall and stepped lintel over the entrance. The building contributes to the streetscape and is a significant example of civic architecture in the area.

Electricity Substation No.117 forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.

Electricity Substation No.117 and the other surviving substations demonstrate the fundamental role that electricity played in powering Australia's industrialisation and how technological innovations of the time, specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks mark the location of factories predating electricity.

The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's Euston Road was almost exclusively occupied by industries, including the substantial former factory for Australian Window Glass located on land surrounding and opposite the substation.

Electricity Substation No. 117 is of local heritage significance in terms of its historical, aesthetic and representative values.

#### Item name: Electricity Substation No. 117 including interiors

Location: 16 Euston Road Alexandria 2015

Sydney

**Historical notes** Early development of the locality: **of provenance:** 

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street. The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

#### Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians were working in city industries than in farms or mines.

Sydney

#### Item name: Electricity Substation No. 117 including interiors

Location: 16 Euston Road Alexandria 2015

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Substations history:

One of the major innovations in industry during the nineteenth century was the development of electricity as a power and lighting source, which rivalled and then replaced water and steam power. The mills and workshops of the earlier Industrial Revolution in Britain and North America were mainly water and steam powered, whereas Australia's twentieth century industrial buildings were powered by electricity.

As part of supplying electricity to Sydney's houses and industries for the first time, Sydney Council built Sydney's first power stations and substations during the first half of the twentieth century. Sydney Council, then known as Sydney Municipal Council or the Municipal Council of Sydney, was charged with supplying electricity to Sydney city and surrounding areas in 1896 through the law named the Municipal Council of Sydney Electric Lighting Bill passed on 16th October 1896. Electricity supply was managed through the council's department known by a number of names: the Electric Lighting Committee, the Electric Light Department and the Electricity Department from 1920 to 1935. From 1936 the electricity undertaking was named Sydney County Council when it was reformed as a separate authority as a result of the Gas & Electricity Act of 1935. The various names for the council and subsequent electrical authority are recorded in the initials and building names inscribed in substation facades.

Sydney's first power station at Pyrmont began operating in 1904. The large network of substations were constructed in strategic locations to supply power from these power stations to individual customers and other electricity networks. Their specific purpose was to house machinery to convert high voltage electricity for industrial or domestic use. Substations were often erected in close proximity to factories to service their high energy demands. Consequently the number, concentration and location of substations provide markers of twentieth-century factories and industrial centres in the way that chimney stacks marked factories pre-dating electricity. Alexandria demonstrates this pattern with its large number of substations, reflecting its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity.

The period and location of surviving substations record the progressive extension of Sydney's electrical network from the centre of Sydney to surrounding areas, the scale and importance of this network, and the fundamental changes electricity brought for Sydney's growth, development and society. Sydney Municipal Council built its first substations at Town Hall, Taylor Square, Woolloomooloo and Ultimo, followed by Glebe, Newtown, Camperdown and surrounding areas. From 1904 to 1935, Sydney Council built more than 360 substations and almost 400 pole transformers throughout Sydney and surrounding suburbs. More continued to be built in the following decades. The Energy Australia (AusGrid) heritage and conservation register records that 33 of the surviving substations are located within the City of Sydney. This number excludes those no longer owned or operated by the electricity supplier.

Alexandria demonstrates this pattern with its larger number of substations reflecting its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's Euston Road was almost exclusively occupied by industries, including the substantial former Australian Window Glass factory located on the land surrounding Substation No. 117 for which the substation was first built.

Each substation has its own number inscribed on the building facade, which reflects its role in the broader electrical network and generally the total number, sequence and period of construction, with some exceptions where disused numbers were reallocated. Most substations were constructed in established urban areas on a small portion of land acquired or subdivided specifically for this purpose. These buildings, while modest in scale and

#### Item name: Electricity Substation No. 117 including interiors

Location: 16 Euston Road Alexandria 2015

Sydney

different in function to surrounding buildings, were designed and constructed to a good standard, in a style designed to harmonise with surrounding architecture, in order to reduce community fears or resistance to the incursion of this new technology and impacts on the appearance of streets.

The rise of electricity during the late nineteenth century, and in particular small motors for driving machinery and electrical lights, changed the configuration of industrial buildings and machinery. Electricity meant that factories could be designed with a more flexible layout because small electric motors eliminated the need for belt and shaft drives from the steam plant. Factory building design became less reliant on windows for natural light and gas lighting ventilation because of the advent of electric lighting. Electricity also created a new market for factories to produce the new consumer goods reliant on electric power, such as fridges, washing machines, telephones, stoves, ice cream, and the engineering for electric lights, trains and trams.

Site history:

The substation was constructed in 1934 to supply electricity to the Australian Window Glass Co factory to service its increasing demand for electricity.

This was the second permanent substation built in the immediate vicinity after the 1929 substation located on land leased from Australian Window Glass Co. The company was initially unwilling to lease any additional land to accommodate a new substation due to its planned extensions on the site, however eventually agreed to sell the subject site to Sydney Municipal Council.

A new temporary outdoor substation was initially erected on this site in 1931 until the existing substation was completed by June 1934.

Later in 1934, the new substation began operations and the temporary substation was dismantled.

In the early 1940s, the Australian Window Glass Co began using high voltage electricity. The main low-voltage supply to the glassworks from the Euston Road substation was disconnected, although a small capacity supply to the works was maintained for use in emergencies. The substation continued to supply electricity to other consumers in the surrounding area.

The majority of the former glassworks have been demolished with only part of the 1930 façade remaining along Euston Road located adjacent to the substation.

By 2012, the substation was still in service for supplying low-voltage electricity (Pennington, 2012, pp. 54-55).

Themes:	National theme 3. Economy		State theme Technology	Local theme Electricity
	4. Settlement		Utilities	Electricity Substation
Designer: S	Sydney Municipal Co	uncil		
Builder: S	Sydney Municipal Co	uncil		
Year started:	1931	Year completed:	1934	Circa: No

#### Item name: Electricity Substation No. 117 including interiors Location: 16 Euston Road Alexandria 2015 Sydney Physical description: Substation No. 117 was built by Sydney Municipal Council in 1934. The substation comprises a single-storey brick building contained under a gabled roof concealed behind a parapet wall. The facade is constructed of tuck-pointed face brickwork. The facade wall is continued at a lower height along the street frontage to form the fence and entrance to the side transformer yard. This simply detailed, purpose-designed and built substation from the inter-war period exhibits typical characteristics of the stripped classical style including the heavy geometric massing, symmetry of the main building, roof form concealed behind a parapet wall, emphatic portal, simple surfaces and reference to classical columns in the stepped and fluted entrance recess. Art Deco decorative elements common to this style are found in the geometric, diamond-pattern, relief brick ornamentation along the parapet wall and stepped lintel over the entrance. A large identity plaque surmounts the main entrance. The entrance and skyline are emphasised by painting of the lintel over the entrance, the recessed entrance architrave and parapet capping. Internally, the roof, foundations and floor structures have not been inspected by the authors. Category: Individual building. Style: Inter-war stripped classical. Storeys: One. Façade: Face brick. Side/Rear Walls: Painted brick. Physical condition Good level: **Physical condition:** Archaeological Not assessed potential level: Archaeological potential Detail: **Modification dates:** Recommended Retain and conserve the building. management: A Heritage Assessment and Heritage Impact Statement should be prepared for the building prior to any major works being undertaken. Archival photographic recording, in accordance with Heritage Council guidelines, should be undertaken before major changes All conservation, adaptive reuse and future development should be undertaken in accordance with the Australia ICOMOS Charter for Places of Cultural Significance (The Burra Charter). No vertical additions should be made to the building. Do not paint or seal face brickwork. Tuck-pointed face brickwork, entrance and parapet detailing and other original building features should be maintained and conserved. New uses for the building are to complement and enhance the internal and external character of the building by conserving and interpreting significant fabric and spatial qualities. Alterations for a new use, including changes for compliance with Australian building standards, should allow the essential form of the building to remain readily identifiable. Management: Management category Management name Statutory Instrument List on a Local Environmental Plan (LEP)

#### Item name: Electricity Substation No. 117 including interiors

Location: 16 Euston Road Alexandria 2015

Sydney

Further comments:	Heritage Inventory sheets are often not comprehensive, and should be regarded as a general guide only.
i ur un cr	Inventory sheets are based on information available, and often do not include the social history of sites and buildings. Inventory sheets are constantly updated by the City as further information becomes available. An inventory sheet with little information may simply indicate that there has been no building work done to the item recently: it does not mean that items are not significant. Further research is always recommended as part of preparation of development proposals for heritage items, and is necessary in preparation of Heritage Impact Assessments and Conservation Management Plans, so that the significance of heritage items can be fully assessed prior to submitting development applications.
Criteria a):	Built in 1934 to supply electricity for the Australian Window Glass Co factory, Electricity Substation No. 117
[Historical significance]	represents a surviving example of the original network of more than 360 substations built by Sydney Municipal Council from 1904 to 1936, which first supplied electricity to Sydney's industries and houses. The period and location of the substation records the expansion of Sydney's electricity network and the growth of electricity use in Alexandria. The building also marks the major changes electricity brought for Alexandria's growth, development and population. As the most intact surviving building from the surrounding site's former industrial use, the substation is also a rare remnant of the substantial Alexandria factory for Australian Window Glass Co.
	Electricity Substation No. 117 forms part of one of the largest known collections of industrial and warehouse buildings of its kind in Australia, which records City of Sydney's past as one of only two historic industrial heartlands in Australia. This collection of buildings provides evidence of Australia's twentieth century transformation through industrialisation when Sydney became one of the largest industrialised cities in the South Pacific.
	Electricity Substation No. 117 and the other surviving substations demonstrate the fundamental role that electricity played in powering Australia's industrialisation and how technological innovations of the time, specifically electricity, defined Sydney's industrial development during the twentieth century. Often constructed to service the high energy demands of factories in the near vicinity, the number, concentration and location of substations provide markers of twentieth century industrial centres and factories in the way that chimney stacks mark the location of factories predating electricity.
Criteria b):	The larger number of substations in Alexandria demonstrates its history as a major industrial area mostly developed after the advent of electricity and before substations of this kind were no longer needed for supplying electricity. Alexandria's Euston Road was almost exclusively occupied by industries, including the substantial former factory for Australian Window Glass located on land surrounding and opposite the substation. The substation has significant associations with the Municipal Council of Sydney, who constructed the building
[Historical association significance]	as part of its early twentieth-century responsibility for the generation and distribution of electricity throughout the greater Sydney area from 1904 until 1936. It also has associations with the factory for which it was built, the
Criteria c): [Aesthetic/ Technical significance]	Substation No. 117 demonstrates the characteristic modest form, quality of design and construction for Sydney's substations, which were designed to a higher standard than required for their function in order to integrate into their established urban contexts by reflecting neighbouring architecture or popular styles of the time.
	The buildings is a representative example of a simply detailed, purpose-designed and built substation from the inter-war period. It demonstrates typical characteristics of the stripped classical style applied to a utilitarian building, including the heavy geometric massing, symmetry of the main building, roof form concealed behind a parapet wall, emphatic portal, simple surfaces and reference to classical columns in the stepped and fluted entrance recess. As is common for this style, Art Deco elements are also found in the decorative features including the geometric brick relief ornamentation along the parapet wall and stepped lintel over the entrance.
Criteria d): [Social/Cultural significance]	The building contributes to the streetscape and is a significant example of civic architecture in the area. Social significance requires further study to ascertain its value to communities. The building may have value to community members with an interest in the history, buildings and technology for Sydney's electrification.

#### Item name: Electricity Substation No. 117 including interiors

				0			
	Location:	16 Euston Road	Alexandria 2015			Sydney	
	Criteria e): [Research significance]		offer research poter of for substations in	ntial into the evolution of Sydney.	technology for elect	ricity supply and	
	Criteria f): [Rarity]			from the surrounding site ndria factory for Australia			is also a
	Criteria g): [Representative]			le of a substation from th c modest form, quality of	-		
		electrical network population during Of more than 360 current Energy Au	and the major chang the twentieth centur originally built by S Istralia (AusGrid) he	on of extant substations, ge that electricity brought ry, in particular for the de Sydney Municipal Counci eritage and conservation r mber excludes those no le	t for Sydney's growth velopment of industration l from 1904 to 1930 register records that 2	n, development and ry. in metropolitan Sy 33 surviving substa	dney, the tions are
1	Intactness/Integrity:						
	References:	James Pennington Scott Cumming		<b>Title</b> Electricity Substations Chimneys and Change:	Post European Envi		1 2004
		Frances Pollon		The book of Sydney su	burbs		1996
		Higinbotham & Ro		Alexandria, Sydney			1890
		Higinbotham & Ro		Waterloo, Sydney		· · ·	1890
				Energy Australia (Ausg			
		TZG Architects an	id Orwell & Peter Pl	Conservation Managem	ient Plan: Substation	No. 6 and Underg	r 2002
	Studies:	Author City Plan Heritag	TitleeCity of Syd	lney Industrial & Wareho	ouse Buildings Herita	Number age (	<b>Year</b> 2014
	Parcels:	<b>Parcel code</b> LOT	<b>Lot number</b> 1	Section number	<b>Plan code</b> DP	<b>Plan number</b> 184514	
	Latitude:				Longitude:		
	Location validity:			SI	patial accuracy:		
	Map name:				Map scale:		
	AMG zone:			Easting:		Northing:	
	Listing:	Name	т	- Title		Number	ListingDate
	Listing.			Ieritage Act - s.170 NSW	State agency heritag		01/11/1994

City of Sydney Industrial and WareHeritage studyData entry:Data first entered:05/08/2014Data first

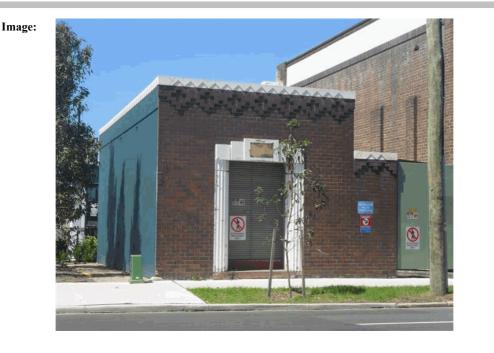
Data updated: 13/05/2015

Status: Completed

#### Item name: Electricity Substation No. 117 including interiors

Location: 16 Euston Road Alexandria 2015

Sydney



Caption:	North-western	(front)	and north-eastern elevations of the substation
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Copy right: City of S	syaney
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- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345acbdd749fef94dce97fc52746c9d5711.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345acbdd749fef94dce97fc52746c9d5711.JPG

#### Item name: Electricity Substation No. 117 including interiors

Location: 16 Euston Road Alexandria 2015

Sydney

Image:



Caption: Th	he substation	and adjacent	altered buildin	g n 2014
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- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 05/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/34510916a7d85bd49d49f1216eef1d33420.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test34510916a7d85bd49d49f1216eef1d33420.JPG

#### Item name: Electricity Substation No. 117 including interiors

Location: 16 Euston Road Alexandria 2015

Sydney



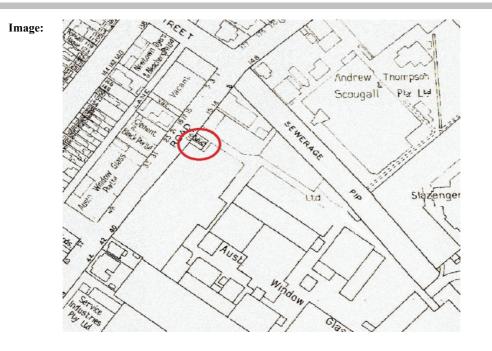
Caption:	The substation in July 2008 before the surrounding factory buildings were altered or demolished
Copy right:	James Pennington
Image by:	James Pennington
Image date:	01/07/2008
Image number:	

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345ea11dd41bd9947e7a8e93caee9bfcd1b.jpg
- Thumbnail url:
   http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP

   P/Thumb\_test345ea11dd41bd9947e7a8e93caee9bfcd1b.jpg

#### Item name: Electricity Substation No. 117 including interiors

Location: 16 Euston Road Alexandria 2015



Caption: 1956 detail sheet showing subject substation and surrounding industries

- Copy right: City of Sydney archives
- Image by: City of Sydney
- **Image date:** 01/01/1956

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3452eb975217bc4429d912d255c0b161ac1.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3452eb975217bc4429d912d255c0b161ac1.jpg

# Inventory 14

SHI number 5062445 Study number

	Former Alexandria Spinning Mills including interiors of west part and internal structure of east part					
Location:	40A-42 Maddox Street Alexandria 2	015		Sydney		
Address:	40A-42 Maddox Street		Planning:	Sydney South		
Suburb/nearest town:	Alexandria 2015					
Local govt area: State:	Sydney NSW		Parish: County:			
Address:	58-68 Euston Road		Planning:	Sydney South		
Suburb/nearest town:	Alexandria 2015					
~~~~~~	Sydney NSW Opera Australia Store, Colonial Con	hing Spinning and Weaving Compa	Parish: County: ny I td			
Area/group/complex:	*		Group	) ID:		
Aboriginal area:	Eora					
Curtilage/boundary:	Excluding the office building frontin	g Euston Road, as described in Sydr	ney Local Environm	ental Plan		
Item type:	Built Gro	up: Manufacturing and Processing	Category: Facto	ry/ Plant		
Owner:						
Admin codes:	Cod	2:	Code 3:			
Current use:	Commercial, warehouse					
Former uses:	Factory, warehouse					
Assessed significance:	Local	Endorsed s	ignificance:			

SHI number 5062445 Study number

e <b>ast part</b> 40A-42 Maddox Street Alexandria 2015	Sydney
Built for the Alexandria Spinning Mills from 1924, this complex represe cotton mills from the first half of the twentieth century. The complex der industrial development of Alexandria and provides evidence of the form City of Sydney.	monstrates the twentieth-century
The mills are historically significant for their connection to the Australia when Australian-made textiles first began to compete with foreign impo- demonstrate the importance of the wool and cotton industry to Sydney a mills provide evidence of the rapid growth of the Australian textile manu- the range of production extended to finer qualities of yarn and cloth. Its growth of the textiles industry to support the war effort for World War I	rts. The scale of the site and its building nd Australia. The construction of these ufacturing industry during the 1920s as subsequent expansion demonstrates the
The complex has significant associations with the Alexandria Spinning I the knitting wool, knitting books, Australian military clothing used in W this site during this period.	
As a major major employer, in particular for girls and women, infamous former mills are also significant for their connection to the history of em development of the labour movement in Sydney. These mills represent t and 1940s, which were a significant event in Sydney's twentieth century conditions for the working class, better conditions for women in the wor this reason, the site is likely to have social significance to the community descendants.	ployment of women and the he site of major strikes during the 1930s movement for improved rights and kforce and the growth of unions. For
Dating from 1924 to the 1960s, the collection of buildings within this sit industrial precinct from the early twentieth century. The buildings on the modular building form of inter-war and post-war industrial buildings, ch roofs containing southern roof lights, load-bearing brick walls and interr construction.	e site demonstrate the distinctive haracterised by repeated bays of sawtoot
The former mills complex forms part of one of the largest known collect buildings of its kind in Australia, which records City of Sydney's past as heartlands in Australia. This collection of buildings provides evidence o transformation through industrialisation when Sydney became one of the Pacific.	s one of only two historic industrial f Australia's twentieth century
The former Alexandria Spinning Mills is of local heritage significance in representative values.	n terms of its historical, aesthetic and

SHI number 5062445 Study number

#### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney

**Historical notes** Early development of the locality:

of provenance:

This site forms part of the land of the Gadigal people, the traditional custodians of land within the City of Sydney council boundaries. For information about the Aboriginal history of the local area see the City's Barani website: http://www.sydneybarani.com.au/

The suburb of Alexandria was once part of a vast sand dune system covered by heath, low scrub, creeks and freshwater wetlands that dominated the landscape of the southern suburbs of Sydney. It provided a habitat for a range of fauna such as birds, fish and eels, and was a good food source for the Gadigal, the local Aboriginal people.

The land that today incorporates the areas of Alexandria, Waterloo, Zetland and Rosebery was originally one large estate. Originally granted to former convict and public servant William Hutchinson in 1823, the estate, its buildings and water mill, were then sold to Daniel Cooper and Solomon Levy in 1825 before Cooper became its sole owner in 1833.

For a large part of the nineteenth century, the area was semi-rural low-lying land with swamps. The principal activities were market gardening, dairying and wool-washing. A number of dams were built in this area, including the Little Waterloo Dam, the Big Waterloo Dam and the Upper Dam, as shown on 1885-1890 Higinbotham and Robinson maps of Alexandria and Waterloo.

Waterloo Council was formed in 1860. The municipality of Alexandria was separated from Waterloo and became the Borough of Alexandria in 1868. The area was connected to the city through a network of trams extending along Botany Road and Elizabeth Street.

The land of the Cooper Estate was progressively subdivided into small acreages and sold for residential purposes in 1872 and 1884 with the final sale taking place in 1914. The release of the Cooper Estate opened up large tracts of land for industrial uses at a time when surrounding areas had become more densely populated. This resulted in the relocation of many industrial establishments from Redfern and Surry Hills to the Alexandria and Waterloo area.

This intensive period of industrial development increased land value in the area and forced out all but a few of the remaining market gardeners. Fellmongering, tanning and wool-washing industries were typical of Alexandria. The wetlands of the area offered ideal features for these industries which needed to be located close to a plentiful water supply.

By 1943 an Alexandria Council celebratory publication claimed that Alexandria was the largest industrial municipality in Australia, proudly proclaiming that 'an area of 1,024 acres has been crowded not less than 550 factories' (Alexandria Municipal Council 1943, p78). Secondary industries declined in the area from the 1970s as industry expanded to the outer suburbs.

Industrial history:

As one of only two major centres for historic Australian industry during the period when industry was centred in cities, Sydney's industrial development is part of the national history of industrialisation. Australia's industrialisation formed part of the 'second industrial revolution' which began during the mid-nineteenth century. This second revolution was driven by major technological innovations including the invention of the internal combustion engine and the assembly line, development of electricity, the construction of canals, railways and electric-power lines.

Sydney's twentieth century industrial development records when and how Sydney became one of the largest industrialised cities in the South Pacific and the diversification of Australia's economy beyond primary industry. Together with Melbourne, Sydney's twentieth century industrial boom expanded Australia's economy from the 'sheep's back' to the 'industry stack' or from primary production to manufacturing. By 1947 more Australians

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#### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney

were working in city industries than in farms or mines.

Sydney's industrial development not only impacted on the national economy. Twentieth-century industry in Sydney also played a major role in developing Australia's self-sufficiency, growth, urbanisation, society and its contribution to the war effort for World War II. Sydney's industrial development has affected the lives of many Australians directly and indirectly, whether through the number of workers employed, goods and technology produced, the prosperity it engendered, or the social change and urban environments it generated.

Robertson & Marks history:

The prominent Sydney architects, Robertson & Marks, was established in 1892 and continues to practice today as Robertson & Marks Pty Ltd. The original partners were George Birrell Robertson and Theodore John Marks. Struan Robertson inherited both partners' shares upon their deaths in 1913 and 1941. John Trevor Guy joined the practice in 1940.

Much of the practice's early work was connected with racing due to the connections of the partner, Theodore Marks. Marks was a member of the Australian Jockey Club (AJC) from 1893, an original shareholder in the Victoria Park Racing and Recreation Grounds Co Ltd for pony-racing, and chairman of the Rosehill Racing Club between 1919-41. Marks designed many of the buildings and alterations at Randwick and Warwick Farm Racecourses for the AJC in 1922 and the since demolished Leger Stand at Rosehill (1920), amongst others.

Robertson & Marks designed a large number of significant buildings in Sydney. Between 1892 and 1941 these works included the: Edwards Dunlop & Dunlop Warehouses, Kent Street (1901); Briscoe & Co Ltd bulk store, Ultimo (1901); W. Horace Friend Warehouse, Clarence Street (1906); Oswald Sealy Building, Clarence Street (1906); Richardson & Co Emporium, Armidale (1908); the original Challis House, Martin Place (1908); Perpetual Trustee Co, Hunter Street (1917); Daily Telegraph Building, King Street, with Samuel Lipson (1912-16,1934); Prouds Ltd, Pitt Street (1920); Hotel Australia Rowe Street wing (1923); Warwick Farm Racecourse grandstand (1925), Bank of NSW head office, Martin Place (1927-32); Mercantile Mutual Building, Pitt Street (1929); Asbestos House, York Street, with John Reid & Sons (1930-5); and the AWA Building, York Street, as Robertson, Marks & McCredie with Morrow & Gordo (1937-39).

In its earlier days, the practice also designed numerous houses for the elite of Sydney society, including: 'Goondee', Wahroonga (1897); 'Glensley', Turramurra (1897); 'Gorawin', Killara (1903); Brunton house, Bellevue Hill (1904); 'Heverlee', Wahroonga (1904); and 'Wanstead' (Gowing), Lindfield (1911).

The architectural styles of the firm changed both with time and the building type. Their major commercial buildings in the early years of the century were bold Federation warehouses with Romanesque arches at either ground or top floor level. The arches gave way to a simple rectilinear, trabeated facade treatment in later warehouses and offices. During the inter-war period, the firm's large Sydney buildings demonstrated a number of inter-war styles including the commercial palazzo style (Farmer & Co. department store, Market Street, 1920, and Gowings Bros Building, Market Street, 1912-29, with C.H. Mackellar), inter-war functionalist (S.H. Hoffnung & Co. Building, 1939, with Samuel Lipson) and restrained inter-war Mediterranean styles (Bondi Surf Pavilion, Bondi Beach, 1930 with L. McCredie). (Robertson, 2011)

Historical summary of site:

The Alexandria Spinning Mills Ltd was one of the nation's largest spinners and weavers of cotton and woollen goods in the first half of the twentieth century. The Alexandria Spinning Mills employed a large workforce. Relationships between management and the workers were often poor due to infamous working conditions. The factory in Alexandria was the scene of major strikes in the 1930s and 1940s.

The construction of these mills reflect the rapid growth of the Australian textile manufacturing industry in the 1920s as the range of production extended to finer qualities of yarn and cloth. Cotton spinning began in Sydney in 1923. Australian manufacturers focussed on displacing the imported cloth and producing woollen yarn for

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#### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney

knitting mills. In the twenties, the main products of cotton weaving were towels and cotton tweeds. By the end of the twenties, textile imports had been reduced to a minor portion of the market. Import tariffs had played a role in the success of local manufacturers. Australia's cotton manufacturing was a new emerging industry throughout the twenties (http://www.kooriweb.org/cland/textile.html#\_ftn20, accessed 15 January 2015).

After the firm purchased land from the Cooper Estate, a Certificate of Title was issued on 4 February 1924 to the Colonial Combing Spinning and Weaving Company Ltd for 7½ acres with frontages to Euston Road, Maddox Street and Huntley Street (Certificate of Title 3555 f 219).

A valuation in November 1924 showed that a brick factory with a galvanised iron roof and engine room had been constructed by that time (Valuer-General, Valuation Cards, Alexandria, SRNSW 13/7448, Euston Rd).

In December 1924, the company was advertising for girls to work in its spinning factory (SMH, 22 Dec 1924, p 16).

In October 1926, fire damaged the interior of the Colonial Combing Spinning and Weaving Company's other works in Lord Street, Botany, causing damage estimated at £15,000 (SMH, 21 Oct 1926, p 11).

The new company named Alexandria Spinning Mills Ltd was registered on 9 November 1926 (ASIC database search, 5 Sept 2014). On 4 March 1927, the property in Euston Road and 40A-42 Maddox Street was formally transferred to the Alexandria Spinning Mills Ltd (CT 3555 f 219).

The valuation of 8 December 1931 recorded that the woollen mill then had offices, a dye room, boiler house, spinning and twisting rooms, a warehouse of brick with an iron roof, partly on 2 floors and partly in a basement plus a brick weaving mill with an iron roof. By 15 May 1934, the factory had been enlarged with a brick extension with a corrugated fibro roof (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8590, no 292).

In January 1934, the workers went on strike. The problems did not end there. Numerous disputes between management and its employees followed during 1940-1. Those disputes were not confined to the Alexandria Spinning Mills, but were part of a more general industry-wide strike during the second world war. The workers of the Alexandria Spinning Mills lead the fray for strikes in the textiles industry.

In 1940 and 1941, more than 1900 of the mostly female workforce went on strike. Strikers from here and other mills including the Bradford Cotton Mills in Newtown demanded pay increases against the recommendations of the union officials who argued for a no strike policy for the 'war effort'.

As a major spinner and weaver, Alexandria Spinning Mills was busy during the war years. They made khaki cloth, socks and

underwear for the Australian military forces (The West Australian, 26 September 1940, p 8). Between February 1939 and 9 June 1942, the factory was enlarged. Further additions had been made by the time the next valuation occurred on 15 February 1945 (Valuer-General, Valuation Lists, Alexandria, SRNSW 19/8590, no 292).

The mill made Twinprufe hand knitting wools, Sunbeam and Sun-glo knitting books, amongst other products.

The 1945 workplace survey listed Alexandria Spinning Mills Pty Ltd, Euston Road, as conducting the business of textile spinning and weaving. It was recorded in this survey as using machinery rated at 1,504 horsepower and employing 644 employees at that time (Workplace Survey, Alexandria, SRNSW 7/6847).

The Alexandria Spinning Mills continued as the proprietor of the land until the mid-1960s (CT 8011 f 199). Additions and improvements continued to be made to the factory until that time. Between 1963 and 1966, the prominent architectural firm of Robertson and Marks designed various alterations and additions (58-68 Euston Rd, Street Cards, NSCA).

From 2003-2007, alterations to the eastern building for new uses included changes to openings, new fit-outs,

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Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part							
Location:	40A-42 Maddox Street Alexa	ndria 2015			Sydney		
	mezzanines and new facilities in some bays, repairs to the south wall, structural reinforcing and alterations to some timber members of the structural frame.						
Themes	The buildings were subsequently converted to other uses including storage and photography studios.Themes:National themeState themeLocal theme						
	3. Economy		Commerce		Warehouses		
	3. Economy		Industry		Activities associated with the n		
D .	5. Working		Labour		Activities associated with work		
_	Robertson & Marks (1963-196	56 alteration	is and additions)				
Builder:	Unknown						
Year started:	1924 Year c	ompleted:	1966		Circa: Yes		
T nysicar description.	The Former Alexandria Spinn 1924 to the 1960s, located adj Road and Maddox Street. The Road, and the eastern part acc The collection of buildings wi	acent to the former mill essed from	stormwater channel ar ls site is located across Maddox Road.	d behind other buildir two sites; the western	ngs addressing Euston part accessed from Euston		
The collection of buildings within this site demonstrate the distinctive modular building form of inter-war and post-war industrial buildings, characterised by repeated bays of sawtooth roofs containing southern roof lante to light the interiors, load-bearing brick walls and internally exposed timber or steel-framed construction. Eig bays of connected sawtooth roofs extend across the length of the two joined sites, running parallel to Maddox Street from the north-west Euston Road boundary to the south-east boundary with the stormwater channel.				ing southern roof lanterns amed construction. Eight ing parallel to Maddox			
	The buildings on the western s warehouses in several intercor on the eastern site accessed fro slant purlins sitting on the bea construction with the mostly g roof.	nnected sect om Maddox ms. The roo	ions. Former industria Street, are of post and f forms are an unusual	buildings located to the beam construction with combination of sawton	he rear of these buildings th timber roof trusses and ooth and gabled roof		
	Buildings on this site shown in rooms. By the 1930s, site offic warehouse, a brick weaving m constructed from 1963-1966 v	ces, a dye ro nill, and an e	oom, boiler house, spin extension to the brick f	ning and twisting room	ns, a two-storey brick		
	The buildings have been adapt opera warehousing for the west			eastern buildings as a	photographic studio and		
	Alterations to the western buil bay. The office building fronti from the listing boundary.						
	Alterations from 2003-2007 for mezzanines and new facilities some timber structural member beams remain. The overall for early aerial photographs. The site has been demolished.	in some bay ers been rem m and footp	ys, structural or other r loved, replaced, repair print of the eastern buil	epairs to the south wal ed or reinforced, a nun ding over 8 bays also	ll and roof structure. While nber of original posts and remains, consistent with		
Physical condition level:		er-war and p	ost-war. Walls: Brick.	Roofs: Sawtooth and §	gabled.		

SHI number 5062445 Study number

### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney

#### Physical condition:

Archaeological Not assessed potential level:

Archaeological potential Detail:

SHI number 5062445 Study number

Item name:	ne: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part			
Location:	40A-42 Maddox Street Alexandria 2015 Sydney			
Modification dates:	: Timeline of known dates for changes to the site:			
	4 February 1924 Certificate of title issued to the Colonial Combing Spinning and Weaving Company Ltd for 7 <sup>1</sup> / <sub>2</sub> acres with frontage to Euston Road, Maddox Street and Huntley Street			
	November 1924 Valuation card shows brick factory with galvanised iron roof, engine room etc owned by Colonial Combing Spinning and Weaving Company Ltd			
	4 March 1927 Ownership transfer to the Alexandria Spinning Mills Ltd			
	8 December 1931 Factory has offices, dye room, boiler house, spinning and twisting rooms, warehouse of brick with iron roof, partly on 2 floors and partly in basement plus brick weaving mill with iron roof			
	15 May 1934 Factory enlarged with brick extension with corrugated fibro roof			
	February 1939 - June 1942 Additions to factory			
	15 February 1945 Additions to factory			
	25 March 1957 Application by Alexandria Spinning Mills for alterations to entrance worth £800			
	29 May 1962 Application for alterations worth £8,000 by E A & J M Scott			
	27 June 1962 Application for alterations to part of factory for dying and finishing textiles by Gibbs Runge (NSW) Pty Ltd			
	24 April 1963 Application for use for stationery manufacture and printing by W Neville & Co Ltd			
	6 May 1963 Application by Robertson and Marks for new doorway to No 68 worth £400			
	22 October 1963 Application by Robertson and Marks for alterations to toilet block worth £8,000			
	21 November 1963 Application by Robertson and Marks for alterations worth £20,000			
	28 November 1963 Application by Robertson and Marks for alterations worth £4,000			
	3 February 1964 Application by Robertson and Marks for roller shutter doors worth £5,000			
	14 February 1964			

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SHI number 5062445 Study number

	Former Alexandria Spinning Mills including interiors of west part and east part	
Location:	40A-42 Maddox Street Alexandria 2015	Sydney
	Application by Robertson and Marks for amenities worth £1,000	
	16 April 1964 Application by Robertson and Marks for alterations worth £1,500	
	20 March 1964 Application by Robertson and Marks for office building at No 66 worth £40,000	)
	15 July 1964 Application by Robertson and Marks for alterations and additions worth £7,000	
	11 December 1964 Application by Robertson and Marks for gatehouse worth £300	
	11 December 1964 Application by Robertson and Marks for entrance gates worth £800	
	13 April 1965 Application by Robertson and Marks for alterations and additions to Number 66	worth £2,000
	29 December 1966 Application by Nationwide Food Services (Catering) Pty Ltd to use Number 66 refreshment room and for selling ice cream	as a smallgoods shop,
	29 April 1966 Application by Robertson and Marks for alterations and additions worth \$1,200	
	30 August 1966 Application by Robertson and Marks for alterations and additions to kitchen wo	rth \$8,000
	4 October 1966 Application by Robertson and Marks for alterations and additions to No 68 wort	h \$1,000
	17 January 1990 Application by Gagt Architects to replace existing roof and roof frames	
	20 September 1990 Application by Gagt Architects for alteration and additions worth \$600,000	
	29 January 2007 Application approved for alterations and additions worth \$975,000 to Maddox S photography studios (D/2006/1859), including fitouts and changes to openings.	treet building for use as

SHI number 5062445 Study number

Item name:	• Former Alexandria Spinning Mills including interiors of west part and internal structure of east part					
Location:	e: 40A-42 Maddox Street Alexandria 2015 Sydney					
	ed The inter-war and post-war buildings should be retained and conserved, including the interiors of the west t: building and internal structure of the east building.					
	A Statement of Heritage Impact should accompany development applications a	affecting these features.				
	All conservation, adaptive reuse and future development should be undertaken ICOMOS Charter for Places of Cultural Significance (The Burra Charter).	in accordance with the Australia				
	Archival and photographic recording, in accordance with Heritage Council gui before major changes.	idelines, should be undertaken				
	Retain the modular bay form of sawtooth and gabled roofs, surviving internal t possible.	timber structural elements, where				
	Consider new uses for the buildings that will re-use and expose their historic for industrial character as an integral part of the new use. Alterations for a new use compliance with Australian building standards, should allow the essential form identifiable.	e, including changes for				
Managamanta	The appropriate form of new development will be determined through the development	elopment application process.				
Management:	Management categoryManagement nameStatutory InstrumentList on a Local Environment	tal Plan (LEP)				
Criteria a):	Heritage Inventory sheets are often not comprehensive, and should be regarded Inventory sheets are based on information available, and often do not include to buildings. Inventory sheets are constantly updated by the City as further inform inventory sheet with little information may simply indicate that there has been recently: it does not mean that items are not significant. Further research is alw preparation of development proposals for heritage items, and is necessary in pr Assessments and Conservation Management Plans, so that the significance of 1 prior to submitting development applications. Built for the Alexandria Spinning Mills from 1924, this complex represents or cotton mills from the first half of the twentieth century. The complex demonst industrial development of Alexandria and provides evidence of the formerly w City of Sydney.	the social history of sites and mation becomes available. An no building work done to the item ways recommended as part of reparation of Heritage Impact heritage items can be fully assessed me of Australia's largest wool and trates the twentieth-century				
	The mills are historically significant for their connection to the Australian pro- when Australian-made textiles first began to compete with foreign imports. The buildings demonstrate the importance of the wool and cotton industry to Sydn of these mills provide evidence of the rapid growth of the Australian textile m 1920s as the range of production extended to finer qualities of yarn and cloth. demonstrates the growth of the textiles industry to support the war effort for W	he scale of the site and its any and Australia. The construction nanufacturing industry during the Its subsequent expansion				
	As a major major employer, in particular for girls and women, infamous for its former mills are also significant for their connection to the history of employn development of the labour movement in Sydney. These mills represent the site and 1940s, which were a significant event in Sydney's twentieth century move conditions for the working class, better conditions for women in the workforce	nent of women and the e of major strikes during the 1930s ement for improved rights and				
	The former mills complex forms part of one of the largest known collections of buildings of its kind in Australia, which records City of Sydney's past as one of heartlands in Australia. This collection of buildings provides evidence of Aust transformation through industrialisation when Sydney became one of the large Pacific.	of only two historic industrial tralia's twentieth century				

SHI number 5062445 Study number

	Item name:	Former Alexan east part	dria Spinning Mil	lls including interiors	of west part and i	nternal structure of	of
	Location:	40A-42 Maddox	Street Alexandria 2	015		Sydney	
	[Historical	The complex has significant associations with the Alexandria Spinning Mills from the 1920s to the 1960s and the knitting wool, knitting books, clothing for the Australian military during World War II, and other products made at this site during this period.					
	[Aesthetic/	industrial precinc modular building sawtooth roofs co steel-framed cons Social significand infamous for its p and 1940s, the sit	t from the early twen form of inter-war ar ntaining southern ro truction. ce requires further st poor working conditi te is likely to have so	ollection of buildings with ntieth century. The buildin nd post-war industrial bui of lights, load-bearing br udy to ascertain its value ions, and site of major str ocial significance to the cost. It may also have signifi	ngs on the site demo ldings, characterised ick walls and interna- to communities. As ikes of its mostly fer ommunity of former	a major former emplo workforce in the workforce of the Alexa	r oyer, 1930s andria
	Criteria e): [Research significance]	of the Sug-glo kn during World Wa	•	Prufe knitting wool and so	ome clothing that su	pplied the Australian	military
	Criteria f): [Rarity]						
	Criteria g): [Representative]	The former Alexa first half of the tw		s complex is a good exam	ple of a large-scale	industrial precinct fro	om the
]	Intactness/Integrity:	Relatively intact e	xternally				
	References:	Author Dr Terry Kass The Koori History Forster, Colin Sydney Morning I Sydney Morning I The Mercury, Hot Scott Cumming	Herald	Title Industrial and warehou Textile manufacture, ht Industrial Developmen Deadlock in textile wor Textile workers outside Returning to Work; Spi Chimneys and Change:	tp://www.kooriweb t in Australia 1920- kers' strike mill inning Mill Strikers	h - site history .org/cland/textile.htr 1930	Year 2014 1964 1940 1941 1940 2004
	Studies:	Author City Plan Heritag	Title City of Syd	dney Industrial & Wareho	ouse Buildings Herit	Number age {	<b>Year</b> 2014
	Parcels:	<b>Parcel code</b> LOT	<b>Lot number</b> 1 & 2	Section number	<b>Plan code</b> DP	<b>Plan number</b> 828392	
	Latitude:				Longitude:		
	Location validity:			S	patial accuracy:		
	Map name:				Map scale:		
	AMG zone:			Easting:		Northing:	

This report was produced using the State Heritage Inventory application provided by the Heritage Division, Office of Environment and Heritage

SHI number 5062445 Study number

	Former Alexandria Spinning M east part 40A-42 Maddox Street Alexandria	ernal structure of Sydney	
Listing:	Name City of Sydney Industrial and Ware	<b>Title</b> Heritage study	Number ListingDate
Data entry:	Data first entered: 05/08/2014	Data updated: 25/09/2015	Status: Completed

### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney



Caption:	Former industrial buildings accessed from Maddox Road, looking north-east
Copy right:	City of Sydney
Image by:	City Plan Heritage and JCIS Consultants
Image date:	15/11/2013
Image number:	
Image url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3455763cc93a9374d2ab26e104fdbc930b9.jpg
Thumbnail url:	http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb_test3455763cc93a9374d2ab26e104fdbc930b9.jpg

SHI number 5062445 Study number

### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney



Continue	Cormon industrial b	uildings seesed from	Madday Daad	looking couth west
Caption:	Former industrial b	uildings accessed from	Maddox Road.	looking south-west

- Copy right: City of Sydney
- Image by: Claudine Loffi
- **Image date:** 03/03/2014

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3452c047fa5cb0a4eb58d9001d97e215605.JPG
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3452c047fa5cb0a4eb58d9001d97e215605.JPG

SHI number 5062445 Study number

### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney



Caption: Interiors of former industrial buildings off Maddox Street

- Copy right: City of Sydney
- Image by: City Plan Heritage and JCIS Consultants
- **Image date:** 15/11/2013

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345b6052bbaeccc412b91478a0c8b9ae5bb.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345b6052bbaeccc412b91478a0c8b9ae5bb.jpg

SHI number 5062445 Study number

### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney



Caption:	One of the former industrial buildings accessed from Euston Road, showing outline of demolished bay
Copy right:	City of Sydney
Image by:	City Plan Heritage and JCIS Consultants
Image date:	15/11/2013
Image number:	

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3453b6efb0172ee4ef88ecf60d3da58f357.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3453b6efb0172ee4ef88ecf60d3da58f357.jpg

### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney



<b>Caption:</b> 1943 aerial photo of the site, with an overlay showing land parcels	Caption:	1943 aerial phot	o of the site.	with an overlay	showing land	parcels
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Copy right:	Lands and Prope	rty Information
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- Image by: RTA
- **Image date:** 01/01/1943

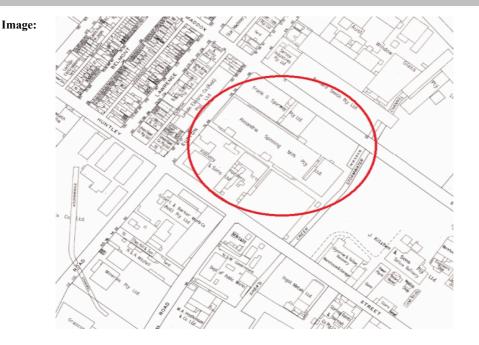
- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a4114bd67c704680943269d89f166219.png
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a4114bd67c704680943269d89f166219.png

SHI number 5062445 Study number

### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney

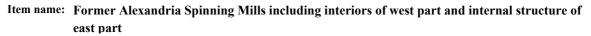


- Caption: 1956 detail sheet showing the subject site, nearby stormwater channel and industries
- Copy right: City of Sydney archives
- Image by: City of Sydney
- **Image date:** 01/01/1956

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3459de66c9ffc7143cabaa1825760bdcee6.png
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3459de66c9ffc7143cabaa1825760bdcee6.png

#### SHI number 5062445 Study number

### Sydney City Council



Location: 40A-42 Maddox Street Alexandria 2015

Sydney



- Caption: One of many newspaper articles about the strikes in 1940
- Copy right: The Mercury
- Image by: The Mercury
- **Image date:** 30/09/1940

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/3451c33c0516bf241ebb6296e01ceb1c7c0.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test3451c33c0516bf241ebb6296e01ceb1c7c0.jpg

SHI number 5062445 Study number

### Item name: Former Alexandria Spinning Mills including interiors of west part and internal structure of east part

Location: 40A-42 Maddox Street Alexandria 2015

Sydney



- Caption: Sun-glo and Twin-Prufe knitting books produced by the Alexandria Spinning Mills
- Copy right: National Wool Museum, Victorian Collections
- Image by: National Wool Museum, Victorian Collections

#### Image date:

- Image url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/345a667912145ce4f57adcf0b2674a498f3.jpg
- Thumbnail url: http://www.environment.nsw.gov.au/maritimeheritageapp/resources/Heritage/shi/WebAP P/Thumb\_test345a667912145ce4f57adcf0b2674a498f3.jpg