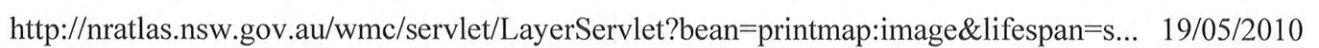




APPENDIX C

(Site History Documents – Groundwater Bore Records)



Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
Document Generated on Wednesday, May 19, 2010

[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW110370

Works Details [\(top\)](#)

GROUNDWATER NUMBER GW110370
LIC-NUM 10BL160269
AUTHORISED-PURPOSES MONITORING BORE
INTENDED-PURPOSES MONITORING BORE
WORK-TYPE Well
WORK-STATUS
CONSTRUCTION-METHOD Auger
OWNER-TYPE Private
COMMENCE-DATE
COMPLETION-DATE 2001-04-24
FINAL-DEPTH (metres) 4.00
DRILLED-DEPTH (metres) 4.00
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY N/A
GWMA -
GW-ZONE -
STANDING-WATER-LEVEL 0.60
SALINITY
YIELD

Site Details [\(top\)](#)

REGION 10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING 6250123.00
EASTING 332598.00
LATITUDE 33 52' 33"
LONGITUDE 151 11' 24"
GS-MAP

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A ([top](#))

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP //75702

Licensed ([top](#))

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP A 83307

Construction ([top](#))

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	4.00	100			Auger
1	1	Casing	PVC Class 18	0.00	0.50	50			Screwed PVC Class 18; Casing - Machine Slotted; SL: 3.5mm; Screwed
1	1	Opening	Slots	0.50	4.00	50			Graded; GS: .3- 4mm; Q: 2m ³
1		Annulus	Waterworn/Rounded	0.00	0.00				

Water Bearing Zones ([top](#))

FROM- DEPTH (metres)	TO-DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S- W-L	D- D- L	YIELD	TEST-HOLE- DEPTH (metres)	DURATION	SALINITY
0.60	4.00	3.40		0.60					

Drillers Log ([top](#))

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	2.10	2.10	FILL,SANDY CLAY		
2.10	3.30	1.20	SILT,BLACK		
3.30	3.50	0.20	SAND CLAYEY		
3.50	4.00	0.50	CLAY SANDY		

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
Document Generated on Wednesday, May 19, 2010

[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW110371

Works Details [\(top\)](#)

GROUNDWATER NUMBER GW110371
LIC-NUM 10BL160269
AUTHORISED-PURPOSES MONITORING BORE
INTENDED-PURPOSES MONITORING BORE
WORK-TYPE Well
WORK-STATUS
CONSTRUCTION-METHOD Auger
OWNER-TYPE Private
COMMENCE-DATE
COMPLETION-DATE 2001-04-24
FINAL-DEPTH (metres) 4.00
DRILLED-DEPTH (metres) 4.00
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY N/A
GWMA -
GW-ZONE -
STANDING-WATER-LEVEL 0.70
SALINITY
YIELD

Site Details [\(top\)](#)

REGION 10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING 6250115.00
EASTING 332598.00
LATITUDE 33 52' 34"
LONGITUDE 151 11' 24"
GS-MAP

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A (top)

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP //75702

Licensed (top)

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP A 83307

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	4.00	100			Auger
1	1	Casing	PVC Class 18	0.00	0.50	50			Screwed PVC Class 18; Casing - Machine Slotted; SL: 3.5mm; A: .4mm; Screwed
1	1	Opening	Slots	0.50	4.00	50			Graded; GS: .3- 4mm
1		Annulus	Waterworn/Rounded	0.00	0.00				

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S- W-L	D- L	YIELD	TEST-HOLE- DEPTH (metres)	DURATION	SALINITY
0.70	4.00	3.30		0.70					

Drillers Log (top)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	2.50	2.50	FILL,SANDY CLAY		
2.50	3.10	0.60	SILT,SATURATED BLACK		
3.10	4.00	0.90	SILTY SAND		

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
Document Generated on Wednesday, May 19, 2010

[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW110372

Works Details [\(top\)](#)

GROUNDWATER NUMBER GW110372
LIC-NUM 10BL160269
AUTHORISED-PURPOSES MONITORING BORE
INTENDED-PURPOSES MONITORING BORE
WORK-TYPE Well
WORK-STATUS
CONSTRUCTION-METHOD Auger
OWNER-TYPE Private
COMMENCE-DATE
COMPLETION-DATE 2001-04-24
FINAL-DEPTH (metres) 4.00
DRILLED-DEPTH (metres) 4.00
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY N/A
GWMA -
GW-ZONE -
STANDING-WATER-LEVEL 0.60
SALINITY
YIELD

Site Details [\(top\)](#)

REGION 10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING 6250121.00
EASTING 332606.00
LATITUDE 33 52' 34"
LONGITUDE 151 11' 24"
GS-MAP

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A (top)

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP //75702

Licensed (top)

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP A 83307

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	4.00	100			Auger
1	1	Casing	PVC Class 18	0.00	0.50	50			Screwed PVC Class 18;
1	1	Opening	Slots	0.50	4.00	50			Casing - Machine Slotted; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: .3- 4mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S- W-L	D- D- L	YIELD	TEST-HOLE- DEPTH (metres)	DURATION	SALINITY
0.60	4.00	3.40		0.60					

Drillers Log (top)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	2.20	2.20	FILL,SILTY CLAY		
2.20	2.70	0.50	SANDY CLAY		
2.70	3.30	0.60	SILT,SOFT BLACK		
3.30	4.00	0.70	SILTY SAND		

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
Document Generated on Wednesday, May 19, 2010

[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW110373

Works Details [\(top\)](#)

GROUNDWATER NUMBER GW110373
LIC-NUM 10BL160269
AUTHORISED-PURPOSES MONITORING BORE
INTENDED-PURPOSES MONITORING BORE
WORK-TYPE Well
WORK-STATUS
CONSTRUCTION-METHOD Auger
OWNER-TYPE Private
COMMENCE-DATE
COMPLETION-DATE 2001-04-24
FINAL-DEPTH (metres) 4.00
DRILLED-DEPTH (metres) 4.00
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY N/A
GWMA -
GW-ZONE -
STANDING-WATER-LEVEL 0.60
SALINITY
YIELD

Site Details [\(top\)](#)

REGION 10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING 6250126.00
EASTING 332590.00
LATITUDE 33 52' 33"
LONGITUDE 151 11' 24"
GS-MAP

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A (top)

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP //75702

Licensed (top)

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP A 83307

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	4.00	100			Auger
1	1	Casing	PVC Class 18	0.00	0.50	50			Screwed PVC Class 18;
1	1	Opening	Slots	0.50	4.00	50			Casing - Machine Slotted; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded: GS: .3- 4mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S- W-L	D- D- L	YIELD	TEST-HOLE- DEPTH (metres)	DURATION	SALINITY
0.60	4.00	3.40		0.60					

Drillers Log (top)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	1.60	1.60	FILL,SANDY CLAY		
1.60	3.40	1.80	SILT,SATURATED BLACK		
3.40	3.70	0.30	SILTY SAND		
3.70	4.00	0.30	SANDY CLAY		

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
Document Generated on Wednesday, May 19, 2010

[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW110374

Works Details [\(top\)](#)

GROUNDWATER NUMBER GW110374
LIC-NUM 10BL160269
AUTHORISED-PURPOSES MONITORING BORE
INTENDED-PURPOSES MONITORING BORE
WORK-TYPE Well
WORK-STATUS
CONSTRUCTION-METHOD Auger
OWNER-TYPE Private
COMMENCE-DATE
COMPLETION-DATE 2001-04-24
FINAL-DEPTH (metres) 4.00
DRILLED-DEPTH (metres) 4.00
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY N/A
GWMA -
GW-ZONE -
STANDING-WATER-LEVEL
SALINITY
YIELD

Site Details [\(top\)](#)

REGION 10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING 6250122.00
EASTING 332603.00
LATITUDE 33 52' 33"
LONGITUDE 151 11' 24"
GS-MAP

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A ([top](#))

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP //75702

Licensed ([top](#))

COUNTY CUMBERLAND
 PARISH PETERSHAM
 PORTION-LOT-DP A 83307

Construction ([top](#))

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	4.00	100			Auger

Water Bearing Zones ([top](#))

no details

Drillers Log ([top](#))

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	0.80	0.80	SILTY SAND WITH MINOR CLAY		
0.80	2.80	2.00	CLAYEY SAND,WITH MINOR GRAVEL		
2.80	4.00	1.20	SANDY CLAY WITH MINOR SHELLS		

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(Site History Documents – Historical Land Titles)

BP

28 MAY 2010

ADVANCE LEGAL SEARCH PTY LIMITED

(ACN 077 067 068)

ABN 49 077 067 068

P.O. Box 149
Yagoona NSW 2199

Telephone: +612 9754 1590
Mobile: 0412 169 809
Facsimile: +612 9754 1364
Email: alsearch@optusnet.com.au

25th May 2010

ENVIRONMENTAL INVESTIGATION SERVICES

PO Box 976,
NORTH RYDE BC NSW 1670

Attention: Brendan Page

**RE: Sydney Fish Markets Site
Pyrmont
Job No.: E23982K**

Current Search

Folio Identifier 2/827434 (title attached)
DP 827434 (plan attached)
Dated 20th May 2010
Registered Proprietor:
STATE PROPERTY AUTHORITY

Title Tree
Lot 2 DP 827434

Folio Identifier 2/827434

Folio Identifier 2/545500

Certificate of Title Volume 12073 Folio 250

Certificate of Title Volume 10843 Folio 196

(a)	(b)	(c)	(d)
CTVol 2088 Fol 91	CTVol 3552 Fol 17	CTVol 3614 Fol 199	CTVol 6871 Fol 250
****	Certificate of Title Volume 1232 Fol 144		CTVol 1304 Fol 63
	*****		*****

Summary of proprietor(s)
Lot 2 DP 827434

Year	Proprietor
	(Lot 2 DP 827434)
2008 – todate	State Property Authority
<i>(1993 – todate)</i>	<i>(various current commercial leases see Folio Identifier 2/827434)</i>
<i>(1993 – todate)</i>	<i>(various commercial leases see Historical Folio 2/827434)</i>
1993 – 2008	The Fish Marketing Authority
	(Lot 2 DP 545500)
1988 – 1993	The Fish Marketing Authority
<i>(1988 – 1993)</i>	<i>(various commercial leases see Historical Folio 2/545500)</i>
	(Lot 2 DP 545500 – CTVol 12073 Fol 250)
1973 – 1988	Fish Marketing Authority
<i>(1973 – 1988)</i>	<i>(various commercial leases see CTVol 12073 Fol 250)</i>
	(Lot 1 DP 233350 – CTVol 10843 Fol 196)
1972 – 1973	Fish Marketing Authority
1969 – 1972	New South Wales Fish Authority

See (a), (b), (c) & (d)

Note (a)

	(30 ½ Perches Grant Parish St Andrews – CTVol 2088 Fol 91)
1965 – 1969	The New South Wales Fish Authority
1930 – 1965	The Shell Company of Australia Limited
<i>(1923 – 1930)</i>	<i>(lease to F Buckle & Sons Limited)</i>
<i>(1911 – 1930)</i>	<i>(lease to The British Imperial Oil Company Limited)</i>
1910 – 1930	F Buckle & Sons Limited

Note (b)

	(Part of John Harris's grant Parish St Andrews – Area 2 Acres 0 Roods 7 ½ Perches – CTVol 3552 Fol 17)
1965 – 1969	The New South Wales Fish Authority
1930 – 1965	The Shell Company of Australia Limited
<i>(1917 – 1930)</i>	<i>(lease to The British Imperial Oil Company Limited)</i>
1928 – 1930	F Buckle & Sons Limited
	(Part of John Harris's grant Parish St Andrews – Area 2 Acres 0 Roods 7 ½ Perches – CTVol 1232 Fol 144)
1903 – 1928	F Buckle & Sons Limited
<i>(1911 – 1917)</i>	<i>(lease to The British Imperial Oil Company Limited)</i>
1900 – 1903	Francis Buckle, gentleman
<i>(1902 – 1911)</i>	<i>(lease to The Shell Transport and Trading Company Limited)</i>
1897 – 1900	English Scottish & Australian Bank Ltd

Note (c)

	(Part 1 Acre 2 Roods 14 Perches grant – Area 2sq ft – CTVol 3614 Fol 199)
1965 – 1969	The New South Wales Fish Authority
<i>(1887 – 1965)</i>	<i>(lease to Robert Maye, contractor)</i>
1927 – 1965	F Buckle & Sons Limited
	(Part of John Harris's grant Parish St Andrews – Area 2 Acres 0 Roods 7 ½ Perches – CTVol 1232 Fol 144)
1903 – 1928	F Buckle & Sons Limited
<i>(1911 – 1917)</i>	<i>(lease to The British Imperial Oil Company Limited)</i>
1900 – 1903	Francis Buckle, gentleman
<i>(1902 – 1911)</i>	<i>(lease to The Shell Transport and Trading Company Limited)</i>
1897 – 1900	English Scottish & Australian Bank Ltd

Note (d)

	(Part of 1 Acre 2 Roods 14 Perches – Parish St Andrews – Area 1 Acre 2 Roods 13 Perches grant – CTVol 6871 Fol 250)
1965 – 1969	The New South Wales Fish Authority
1954 – 1965	The Shell Company of Australia Limited
	(Part of 1 Acre 2 Roods 14 Perches – Parish St Andrews – Area 1 Acre 2 Roods 13 Perches grant – CTVol 1304 Fol 63)
1930 – 1954	The Shell Company of Australia Limited
1903 – 1930	F Buckle & Sons Limited
1899 – 1903	Francis Buckle, gentleman
<i>(1887 – 1965)</i>	<i>(lease to Robert Maye, contractor)</i>

Cadastral Records Enquiry Report

Requested Parcel : Lot 2 DP 827434

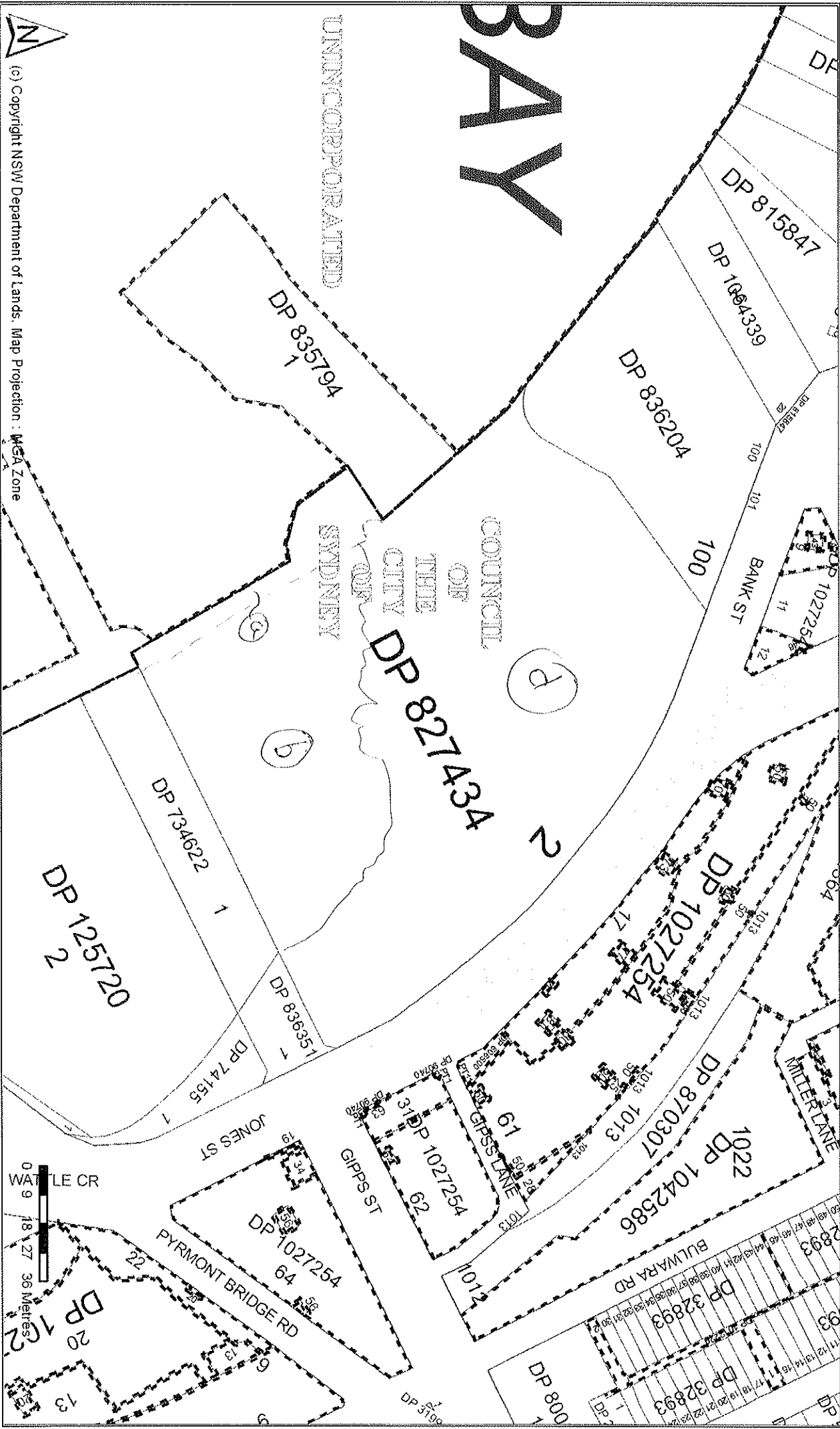
LGA : SYDNEY

Parish : ST ANDREW

Identified Parcel : Lot 2 DP 827434

County : CUMBERLAND

Ref : BOX 97 - PYRMONT





Advance Legal Search Pty Ltd

Phone: 02 9754 1590

LPI On-Line

Advanced Legal Search Pty Ltd hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act. Information provided through Tri-Search an approved LPI/NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 2/827434

SEARCH DATE	TIME	EDITION NO	DATE
20/5/2010	7:44 AM	14	11/4/2008

LAND

LOT 2 IN DEPOSITED PLAN 827434
AT PYRMONT
LOCAL GOVERNMENT AREA SYDNEY
PARISH OF ST ANDREW COUNTY OF CUMBERLAND
TITLE DIAGRAM DP827434

FIRST SCHEDULE

STATE PROPERTY AUTHORITY (AP AD749421)

SECOND SCHEDULE (7 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 PREMISES BEING "SYDNEY FISH MARKET SITE"
- 3 TOGETHER WITH AND RESERVING RIGHTS
- 4 E549866 LEASE TO DE COSTI BROS. SEAFOODS PTY. LIMITED PART
BEING LOTS 1 & 2 IN DP240959 AND LOTS 27 & 28 IN
DP247390. EXPIRES: 13/11/2011.
U704384 TRANSFER OF MORTGAGE TO DE COSTI BROS SEAFOODS
(HOLDINGS) PTY LIMITED
U768391 CONCURRENT LEASE
9533103 MORTGAGE OF LEASE E549866 TO HSBC BANK AUSTRALIA
LIMITED
AB156723 TRANSFER OF LEASE E549866 LESSEE NOW TRANSTASMAN
FISHERIES PTY LIMITED
- 5 DP827434 RIGHT OF CARRIAGEWAY AFFECTING THE PART(S) SHOWN SO
BURDENED IN THE TITLE DIAGRAM
- 6 I553138 LEASE TO POULOS BROS. (WHOLESALE) PTY LIMITED OF
SHOPS 4, 5 & 6, CNR GIPPS & JONES STREET, BLACKWATTLE
BAY, PYRMONT. EXPIRES 30.6.2004 OPTION OF RENEWAL 12
YEARS
I640763 MORTGAGE OF LEASE TO COMMONWEALTH BANK OF
AUSTRALIA
U768391 CONCURRENT LEASE
- 7 U768391 LEASE TO SYDNEY FISH MARKET PTY LTD. EXPIRES
28-10-2044
6698354 LEASE OF LEASE U768391 TO BELLS PURE ICE PTY
LIMITED OF ICE MAKING PLANT NO 1, SYDNEY FISH
MARKET. EXPIRES: 30/6/2009.
AB870597 LEASE OF LEASE U768391 TO REDAZE PTY LIMITED OF
FREEZER ROOM F2, REFRIGERATION & PROCESSING AREA,

END OF PAGE 1 - CONTINUED OVER

EIS - Pyrmont

PRINTED ON 20/5/2010

*ANY ENTRIES PRECEDED BY AN ASTERISK DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE.
WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER.

**Advance Legal Search Pty Ltd**

Phone: 02 9754 1590



LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 2/827434

PAGE 2

SECOND SCHEDULE (7 NOTIFICATIONS) (CONTINUED)

AB842582 SYDNEY FISH MARKET, PYRMONT. EXPIRES: 23/8/2010.
LEASE OF LEASE U768391 TO PROPERTYMODE.COM.AU
PTY LIMITED OF OFFICE S1.5, SYDNEY FISH MARKETS.
EXPIRES: 31/12/2007.

AB940622 LEASE OF LEASE U768391 TO NOTARAS SEAFOODS PTY
LIMITED OF OFFICE 3 IN THE REFRIGERATION AND
PROCESSING AREA OF THE BUILDING AND FREEZER ROOM F6
OF THE SYDNEY FISH MARKET, PYRMONT. EXPIRES:
31/8/2010.

AC340355 LEASE OF LEASE U768391 TO M & G OYSTER SUPPLIES
PTY LIMITED OF PREMISES KNOWN AS FREEZER ROOM F1 IN
THE REFRIGERATION AND PROCESSING AREA OF THE SYDNEY
FISH MARKET, PYRMONT. EXPIRES: 23/8/2010.

AC355965 LEASE OF LEASE U768391 TO M & G OYSTER SUPPLIES
PTY LIMITED OF FREEZER ROOM F7 IN REFRIGERATION AND
PROCESSING AREA OF SYDNEY FISH MARKET, PYRMONT.
EXPIRES: 5/4/2011.

AD183710 LEASE OF LEASE U768391 TO NICHOLAS SEAFOOD
TRADERS PTY LIMITED OF FREEZER ROOM F4 SYDNEY FISH
MARKET, PYRMONT. EXPIRES: 23/8/2010.

AD183743 LEASE OF LEASE U768391 TO JIMFUE CAM MINH LUU &
TOMSIN LUU OF CHINESE RESTAURANT, LEVEL 1, MAIN
BUILDING, SYDNEY FISH MARKET, PYRMONT. EXPIRES:
31/5/2010. OPTION OF RENEWAL: 2 X 5 YEARS.

AD274513 LEASE OF LEASE U768391 TO MICHAEL PAPAHAZIS &
HELEN PAPAHAZIS OF SHOP 8A & CHILLER NO 1, SYDNEY
FISH MARKET. EXPIRES: 31/12/2010.

AD425404 MORTGAGE OF LEASE AD183743 TO ST GEORGE BANK
LIMITED

* AE352189 TRANSFER OF LEASE AD183710 LESSEE NOW
SEAFOOD-BUYFOOD PTY LIMITED

* AE921649 LEASE OF LEASE U768391 TO AUSTRAL FISHERIES PTY
LTD OF SUITES 1.1 AND 1.1A, LEVEL 1, MAIN BUILDING,
SYDNEY FISH MARKET, BANK STREET, PYRMONT. EXPIRES:
30/9/2012.

* AF33706 LEASE OF LEASE U768391 TO CHRISTIE SEAFOODS PTY
LIMITED OF OFFICE S2.0, SYDNEY FISH MARKET, BANK
STREET, PYRMONT. EXPIRES: 13/5/2014.

* AF33707 LEASE OF LEASE U768391 TO CHRISTIES SEAFOODS PTY
LIMITED OF CHILLER ROOM RPA 24, SYDNEY FISH MARKET,
BANK STREET, PYRMONT. EXPIRES: 30/6/2014.

* AF210310 LEASE OF LEASE U768391 TO SHUUKA PTY LIMITED OF
REFRIGERATION AND PROCESSING AREA 10, SYDNEY FISH
MARKET, BANK STREET, PYRMONT. EXPIRES: 31/10/2024.

* AF423563 LEASE OF LEASE U768391 TO NIPPON AUST SEAFOODS
PTY LIMITED OF RETAIL SHOP NO 5 SYDNEY FISH MARKET,

END OF PAGE 2 - CONTINUED OVER

EIS - Pyrmont

PRINTED ON 20/5/2010

*ANY ENTRIES PRECEDED BY AN ASTERISK DO NOT APPEAR ON THE CURRENT EDITION OF THE CERTIFICATE OF TITLE.
WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER.



Advance Legal Search Pty Ltd

Phone: 02 9754 1590



LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 2/827434

PAGE 3

SECOND SCHEDULE (7 NOTIFICATIONS) (CONTINUED)

BANK ST, PYRMONT. EXPIRES: 30/9/2019.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***



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Advanced Legal Search Pty Ltd hereby certifies that the information contained in this document has been provided electronically by the Registrar General.

Information provided through Tri-Search an approved LPINSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

20/5/2010 7:46AM

FOLIO: 2/827434

First Title(s): VOL 819 FOL 200 VOL 2088 FOL 91
OLD SYSTEM

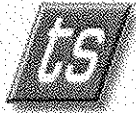
Prior Title(s): 2/545500

Recorded	Number	Type of Instrument	C.T. Issue
30/7/1993	DP827434	DEPOSITED PLAN	FOLIO CREATED EDITION 1
18/8/1993	I553136	DETERMINATION OF LEASE	
18/8/1993	I553137	DETERMINATION OF LEASE	
18/8/1993	I553138	LEASE	EDITION 2
13/9/1993	I640763	MORTGAGE OF LEASE	
21/3/1994	U119718	DEPARTMENTAL DEALING	
21/3/1994	U97896	VARIATION OF LEASE	EDITION 3
31/5/1994	U308827	LEASE	EDITION 4
15/6/1994	U350825	LEASE	EDITION 5
4/7/1994	U408331	LEASE	EDITION 6
26/7/1994	U473197	LEASE	EDITION 7
23/9/1994	U644655	MORTGAGE OF LEASE	
12/10/1994	U696206	TRANSFER OF LEASE	
14/10/1994	U704384	TRANSFER OF LEASE	
14/10/1994	U704385	TRANSFER OF LEASE	
27/10/1994	U741215	DISCHARGE OF MORTGAGE	
27/10/1994	U741216	DISCHARGE OF MORTGAGE	EDITION 8
7/11/1994	U766498	MORTGAGE OF LEASE	
23/11/1994	U768389	REQUEST	
30/1/1995	U768390	TRANSFER OF LEASE	
30/1/1995	U827111	LEASE	EDITION 9
31/1/1995	U768387	APPLICATION	
31/1/1995	U768391	LEASE	EDITION 10

END OF PAGE 1 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

20/5/2010 7:46AM

FOLIO: 2/827434

PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
1/2/1995	U768394	MORTGAGE OF LEASE	EDITION 11
13/2/1996	0910207	MORTGAGE OF LEASE	
20/9/1996	2473910	DEPARTMENTAL DEALING	
16/6/1997	3146659	DISCHARGE OF MORTGAGE	EDITION 12
24/7/1997	3200392	SUB-LEASE	
24/7/1997	3201252	SUB-LEASE	
1/8/1997	3261385	SUB-LEASE	
18/9/1997	3397607	SUB-LEASE	
18/12/1997	3676453	SUB-LEASE	
19/2/1998	3809385	SUB-LEASE	
13/10/1998	5312184	SUB-LEASE	
2/12/1998	5436680	TRANSFER OF LEASE	
8/4/1999	5732741	TRANSFER OF LEASE	
8/4/1999	5732742	VARIATION OF LEASE	
16/4/1999	5754065	DEPARTMENTAL DEALING	
8/6/1999	5887576	DEPARTMENTAL DEALING	
8/6/1999	5883544	DETERMINATION OF LEASE	
9/6/1999	5890855	DETERMINATION OF LEASE	
10/6/1999	5896744	DETERMINATION OF LEASE	
17/2/2000	6568954	DETERMINATION OF LEASE	
17/2/2000	6568955	SUB-LEASE	
28/7/2000	6698354	SUB-LEASE	
27/10/2000	7181637	SUB-LEASE	
6/3/2001	7456426	DEPARTMENTAL DEALING	

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

20/5/2010 7:46AM

FOLIO: 2/827434

PAGE 3

Recorded	Number	Type of Instrument	C.T. Issue
2/8/2001	7824980	DISCHARGE OF MORTGAGE	
7/5/2002	8471492	DETERMINATION OF LEASE	
19/9/2002	8968464	APPLN FOR REPLACEMENT CT	EDITION 13
14/4/2003	9533103	MORTGAGE OF LEASE	
13/12/2004	AB156723	TRANSFER OF LEASE	
27/10/2005	AB870597	SUB-LEASE	
3/11/2005	AB842582	SUB-LEASE	
25/11/2005	AB940622	SUB-LEASE	
30/5/2006	AC340355	SUB-LEASE	
5/6/2006	AC355965	SUB-LEASE	
6/7/2007	AD183710	SUB-LEASE	
6/7/2007	AD183743	SUB-LEASE	
27/7/2007	AD274513	SUB-LEASE	
19/9/2007	AD425404	MORTGAGE OF LEASE	
11/4/2008	AD749421	APPLICATION	EDITION 14
28/11/2008	AE352189	TRANSFER OF LEASE	
3/9/2009	AE921649	SUB-LEASE	
15/10/2009	AF33706	SUB-LEASE	
15/10/2009	AF33707	SUB-LEASE	
25/1/2010	AF210310	SUB-LEASE	
12/4/2010	AF423563	SUB-LEASE	

*** END OF SEARCH ***



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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

20/5/2010 7:49AM

FOLIO: 2/545500

First Title(s): OLD SYSTEM VOL 819 FOL 200

VOL 2088 FOL 91

Prior Title(s): VOL 12073 FOL 250

Recorded	Number	Type of Instrument	C.T. Issue
28/3/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
18/6/1990	DP545500	DEPOSITED PLAN	FOLIO CREATED CT NOT ISSUED
28/6/1990	Y981418	DETERMINATION OF LEASE	
28/6/1990	Z26169	LEASE	EDITION 1
2/7/1990	DP803161	DEPOSITED PLAN	
26/2/1991	Z509491	LEASE	EDITION 2
9/4/1991	Z565341	LEASE	EDITION 3
26/9/1991	Z948556	MORTGAGE OF LEASE	
3/2/1992	E116041	LEASE	
3/2/1992	E116042	LEASE	EDITION 4
1/5/1992	E409213	DISCHARGE OF MORTGAGE	
1/5/1992	E409214	TRANSFER OF LEASE	
17/7/1992	E538958	LEASE	
17/7/1992	E549865	DETERMINATION OF LEASE	
17/7/1992	E549866	LEASE	
17/7/1992	E549867	LEASE	EDITION 5
11/9/1992	E742317	LEASE	EDITION 6
14/12/1992	E973568	DETERMINATION OF LEASE	
14/12/1992	E973569	DETERMINATION OF LEASE	
14/12/1992	E973570	LEASE	
4/3/1993	I69952	CAVEAT	
4/3/1993	I154500	WITHDRAWAL OF CAVEAT	
4/3/1993	I154501	TRANSFER OF LEASE	
21/7/1993	I478288	REQUEST	

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-----SEARCH DATE

20/5/2010 7:49AM

FOLIO: 2/545500

PAGE 2

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
21/7/1993	I478289	REQUEST	
21/7/1993	I503526	DEPARTMENTAL DEALING	EDITION 7
29/7/1993	DP827434	DEPOSITED PLAN	FOLIO CANCELLED RESIDUE REMAINS

*** END OF SEARCH ***

SIGNATURE AND SEALS ONLY.



STATE BANK OF NEW SOUTH WALES
LIMITED by its Memorandum to power
of attorney registered book 3064
No. 4500 and I declare that I
have no notice of the revocation of
the said power of Attorney.

WILLIAM JAMES
Manager Securities
Legal Division

400 B.L.
D.O. BAKER
DEPUTY CHAIRMAN
G.A. SCRAPPE
SECRETARY



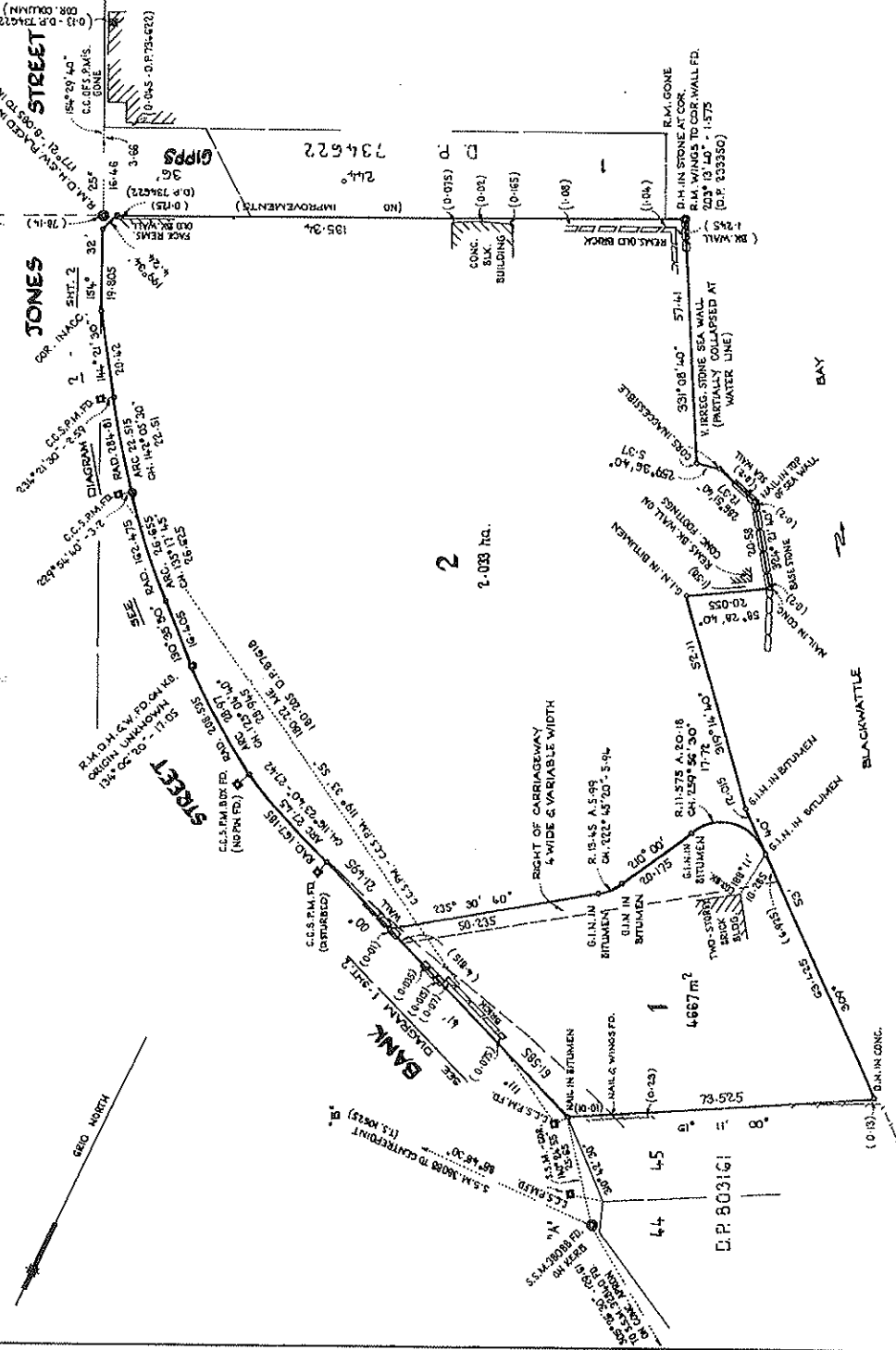
PLAN APPROVED
Lead Officer
Page No.
Page

Council Clerk's Certificate
I hereby certify that:
(a) the requirements of the Local Government Act, 1919 (other than
the requirements for the registration of plans), and
(b) the requirements of section 306 of the 'Municipalities Act',
have been complied with by the applicant in relation to the
plan proposed.
Subscribed at Sydney this 18th day of June 1992.
Date
(Signature)
Acting Town Clerk
Council File No. 598-30239
This certificate is to be placed where the application is lodged for a
plan and is to be retained by the Council for a period of 10 years.
It is a condition of the issue of this certificate that the applicant
shall indemnify the Council and the Hunter District Water
Board in respect of any costs incurred by them in connection with
the plan proposed.
T. Davis is responsible.

SURVEY PRACTICE REGULATION 1990: CLAUSE 32 (3)

MARK	1:50 CO-ORDINATES	ZONE	ACC.
T.S. 10615	319 718 1497 1 150 715 342	561	2
S.M. 38088	317 540 942 1 150 690 437	561	3
S.M. 39840	317 435 342 1 150 765 595	561	3

SOURCE: I.S.G. CO-ORDINATES ADOPTED FROM N.S.W.
LANDS DEPARTMENT AT 24.3.92



OFFICE USE ONLY

DP 827434

Registered: 27-7-1993

C.A. No. 18/92 OF 9.6.1992

Title System: TORRENS

Purpose: SUBDIVISION

Ref. Map: SYDNEY SHIT 101

Lot Plan: D.P. 545500 DP 233350

PLAN OF SUBDIVISION OF
LOT 2 DP 545500 (RESIDUE
PETER ROAD WIDENING)

Lengths are in metres. Reduction Ratio 1:600

Man./Shire
City SYDNEY

Locality: PYRMONT

Period: ST. ANDREWS

County: CAMBERLAND

This is sheet 1 of my plan in 2 sheets.

4. MARTIN PER NUMBY
of PERKINS, DUNLOP & CO. PTY. LTD. STONEY
a surveyor registered under the Surveyors Act, 1924, 44
amended, hereby certifies that the survey represented in this
plan was made by him or by a person acting under his authority
in accordance with the provisions of the Surveyors Act, 1924, 44
amended, and that the plan is a true and correct copy of the
original as kept by him or by a person acting under his authority
in accordance with the provisions of the Surveyors Act, 1924, 44
amended.

Place used in preparation of survey/compilation:
D.P.S. 57416
57416
515500
515500
734422
803161

PANEL FOR USE ONLY for statements of intention
to dedicate public roads, to create public reserves,
drainage reserves, easements, restrictions on the
use of land or positive covenants.
PUSANT TO SECTION 88(5) OF THE
CONVEYANCING ACT 1919-1964, IT IS
INTENDED TO CREATE:
1. RIGHT OF CARRIAGEWAY 4 WIDE & VAR. WIDTH.

DP 827434

Registered: 27-7-1973

This is sheet 2 of the plan in 2 sheets

Surveyor registered under Surveyors Act 1929

This is sheet 2 of the plan in 2 sheets

Acting Town Engineer

For use where space is insufficient in any part of Plan Form 2

W.D. BRADBURY
DEPUTY CHAIRMAN
R.A. SAEPPER
SECRETARY

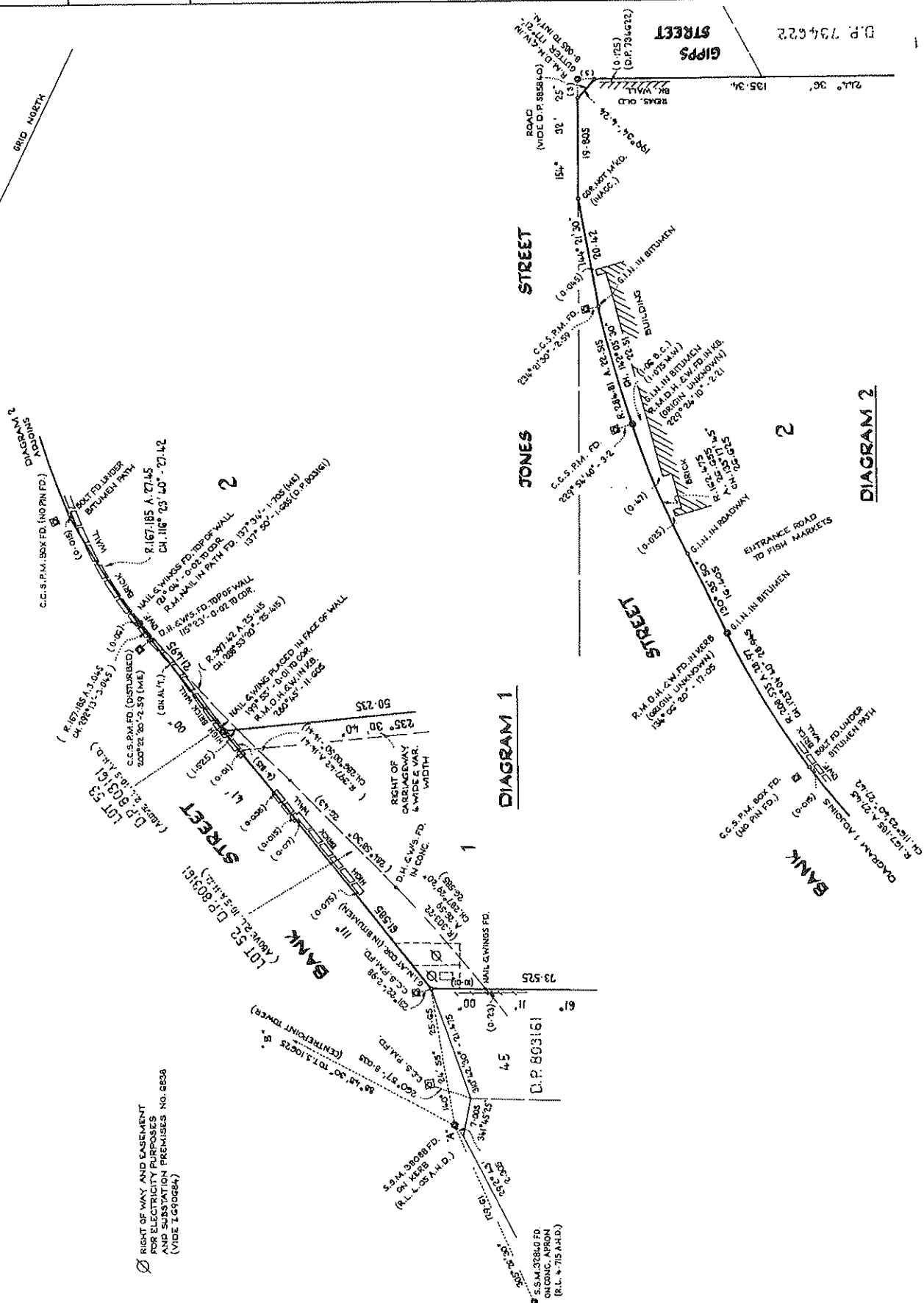


Handwritten signature and notes.

Reduction Ratio 1:500

Plan Drawing only to appear in this space

SURVEYOR'S REFERENCE: 9540 CHECK LIST



B97
/Req: B567182
/Doc: CT 12073-250
/Prt: 21-May-2010

NEW SOUTH WALES



CERTIFICATE OF TITLE

REAL PROPERTY ACT 1900

Appln. No. 45651 (part)

Prior Title Vol. 10843 Fol. 196

CANCELLED



12073250

Vol

Edition Issued 23-3-1973

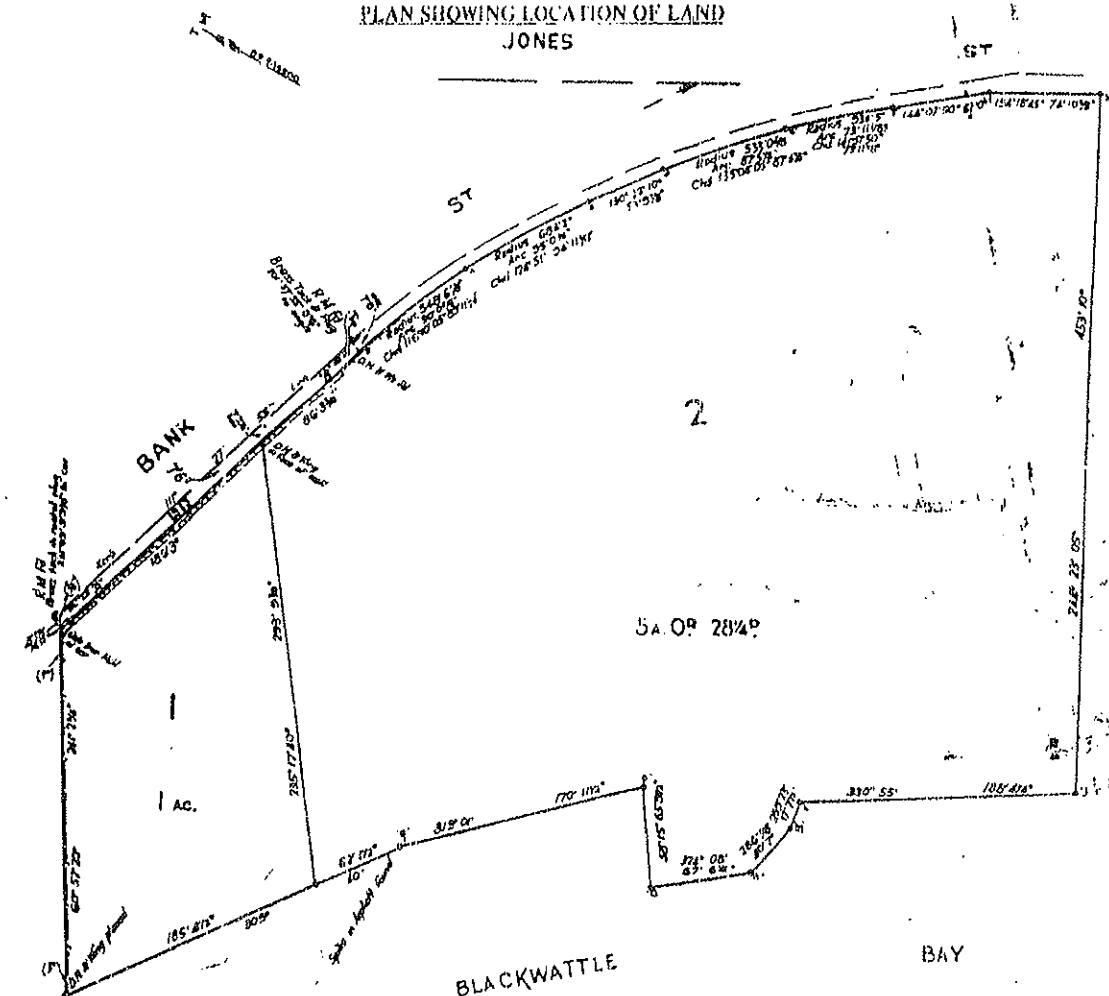


certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

J. J. J. J.
Registrar General.



PLAN SHOWING LOCATION OF LAND JONES



WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TILES OFFICE.

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 2 in Deposited Plan 545500 at Pyrmont in the City of Sydney Parish of St. Andrew and County of Cumberland being part of 135 acres granted to John Harris on 1-1-1806 part of 3 acres 2 roods 21 $\frac{1}{2}$ perches granted by Crown Grant Volume 819 Folio 200 and part of 30 $\frac{1}{2}$ perches granted by Crown Grant Volume 2088 Folio 91. EXCEPTING THEREOUT the mines of coal reserved by Crown Grant Volume 819 Folio 200 and the minerals reserved by Crown Grant Volume 2088 Folio 91.

FIRST SCHEDULE

FISH MARKETING AUTHORITY.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. Mortgage No. 150555 of part of the land above described formerly comprised in Certificates of Title Volume 2088 Folio 91, Volume 3552 Folio 17, Volume 3614 Folio 199 and Volume 6874 Folio 250 to The Shell Company of Australia Limited. Entered 13-11-1965. Discharged Nil.
3. Mortgage Deed Book 276 No. 416 of the part of the land above described comprised in Application No. 45651 to The Shell Company of Australia Limited. Cancelled N720408.
4. Mortgage No. 1661428 of the part of the land above described formerly comprised in Certificates of Title Volume 2088 Folio 91, Volume 3552 Folio 17, Volume 3614 Folio 199 and Volume 6874 Folio 250 to Rural Bank of New South Wales. Entered 8-3-1967.
5. Mortgage No. 187144 of part of the land above described comprised in Application No. 45651 to Rural Bank of New South Wales. Entered 22-7-1968.

J. J. J. J.
Registrar General



21082:275(31)

LAND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

Sigurdur Arnarson

The Land above described is cancelled as regards the interest of the Council of Sydney in DP 585840 See Lot

The Land aforesaid is cancelled as regards the interest of the Council of Sydney in DP 585840 See Lot

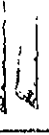
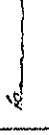
SECOND SCHEDULE (continued)

NATURE	INSTRUMENT NUMBER	DATE	PARTICULARS	ENTERED	Signature of Registrar (Other-1)	CANCELLATION
Lease	N 342387	15-10-1913	of Substation Premises NO 2174 (together with Reg 18/12 the Sydney County Council	17-9-1913	<i>James</i>	
Lease	P546075		as regards Lot 4 in Deposited Plan 240959 and interest in 20 in Deposited Plan 247790, together with and rights to James Produce Pty. Limited.	11-3-1916	<i>James</i>	S791788
Lease	P546077		as regards Lot 26 in Deposited Plan 247790, together with and reserving rights to Antonio Melillo of Brighton-le-Sands Fishmonger and Carmella Raello, his wife.	11-3-1916	<i>James</i>	R302098
Lease	P571547		as regards Lots 11 and 12 in Deposited Plan 240959, together with and reserving rights to Sydney Fisheries Pty. Limited.	11-3-1916	<i>James</i>	Y603528
Lease	P650402		as regards Lot 19 in Deposited Plan No. 240959, together with and reserving rights to Demetrios Papadimos and Sylvia Papadimos both of Sans Souci, Ganton Road, Sydney.	20-3-1916	<i>James</i>	S66191
Lease	P623338		as regards Lot 20 in Deposited Plan 240959, together with and reserving rights, to Giuseppe Musumeci of Botany, Fishmonger, and Maddalena Musumeci his wife, the interests of the Council of the City of Sydney in the addition to existing road shown on O.P. 585840	25-5-1916	<i>James</i>	
				19-10-1916	<i>James</i>	

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

The Undermentioned Leases Comprise part of the "SYDNEY FISH MARKET SITE."

TOGETHER WITH AND RESERVING RIGHTS.

INSTRUMENT		Lot No.	Deposited Plan.	LESSEES	DATE OF EXPIRY	ENTERED	Signature of Registrar General	CANCELLATION
NUMBER	DATE							
Lease	2873387	3	240959	to M. Stephenson Pty. Ltd.	30-9-1989	25-10-1976		V891731
Lease	240959	4	240959	to Nicholas Seafoods Pty. Limited	9-5-1989	10-10-1977		
Lease	R302099	26	247390	to Nick Vincent Ruello of Wahroonga, Fishmonger and Judith Helen Ruello, his wife.	31-7-1992	2-7-1979		
Lease	R499279	29	247390	to Vince Musumeci, Michael Musumeci, Rocco Musumeci and Giuseppe Musumeci, all of Maroubra Bay, Business Partners, as joint tenants.	31-7-1994	21-1-1980		
Lease	S66185	19	240959	to Denetrios Papadimos and Michael Papadimos, both of Sans Souci, Business Partners, as tenants in common. TOGETHER WITH OPTION OF RENEWAL.	30-11-1984	28-10-1980		
Lease	S206565	10	240959	to Bayle's Seafoods Pty. Ltd.	30-6-1989	16-1-1981		
Lease	S206567	2	240959	to Noel Joseph Arena, Frances Josephine Arena and John Anthony Arena all of Kingsford as tenants in common together with option of renewal.	30-10-1980	16-1-1981		
Lease	S147266	30	247390	to Australian Food Distributors Pty. Limited	29-2-1984	4-11-1981		Expired 8-3-1982.
Lease	S791766	28	247390	to James Produce Pty. Limited	31-5-1981	18-11-1981		
Lease	S800084	28	247390	to Nick Vincent Ruello and Judith Helen Ruello, as joint tenants together with an option of renewal.	9-10-1988	7-12-1981		
Lease	S355694	28	247390	to George Costi, Andronila Costi, Harry Denetrios and Helen Denetrios as tenants in common. Together with option of renewal.	31-5-1989	9-3-1982		
Lease	T166	5 & Part of 5	240959	to Poulos Bros (Wholesale) Pty. Limited together with option of renewal.	20-1-1990	14-1-1982		
Lease	R302079	28	247390	to Harry Denetrios and Helen Denetrios and George Costi and Andronila Costi as tenants in common. Registered 28-5-1982.	27-1-1982	27-1-1982		
Lease	R302089	28	247390	to Commonwealth Banking Company of Sydney Limited Registered 28-5-1982.	27-1-1982	27-1-1982		
Lease	S147266	28	247390	to Poulos Bros (Wholesale) Pty. Limited together with option of renewal.	20-1-1990	14-1-1982		
Lease	S147266	28	247390	to Poulos Bros (Wholesale) Pty. Limited together with option of renewal.	20-1-1990	14-1-1982		
Lease	T166	5 & Part of 5	240959	to Poulos Bros (Wholesale) Pty. Limited together with option of renewal.	20-1-1990	14-1-1982		

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

10.8.77
 R302098R
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 of 11 pages
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 -5/12
 59553458
 T166R
 CT 10.8.82
 01/82

WITH AND RESERVING RIGHTS

NOTE: E
Y9814182L Y94B9131R
(X106V52) (Y603522) R
Y77126644
Y77126644

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(Page 4 of 4 pages)

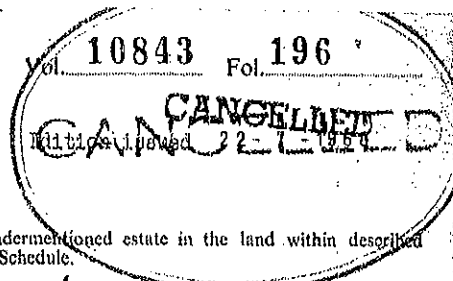
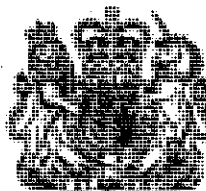
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/Prt: 21-May-2010

NEW SOUTH WALES

Application No. 45651 (part)
Prior Titles Volume 2088 Folio 91
Volume 3552 Folio 17
Volume 3614 Folio 199
Volume 6871 Folio 250

CERTIFICATE OF TITLE

PROPERTY ACT, 1900, as amended.



I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness *M. Flint*

J. Watson
Registrar General.

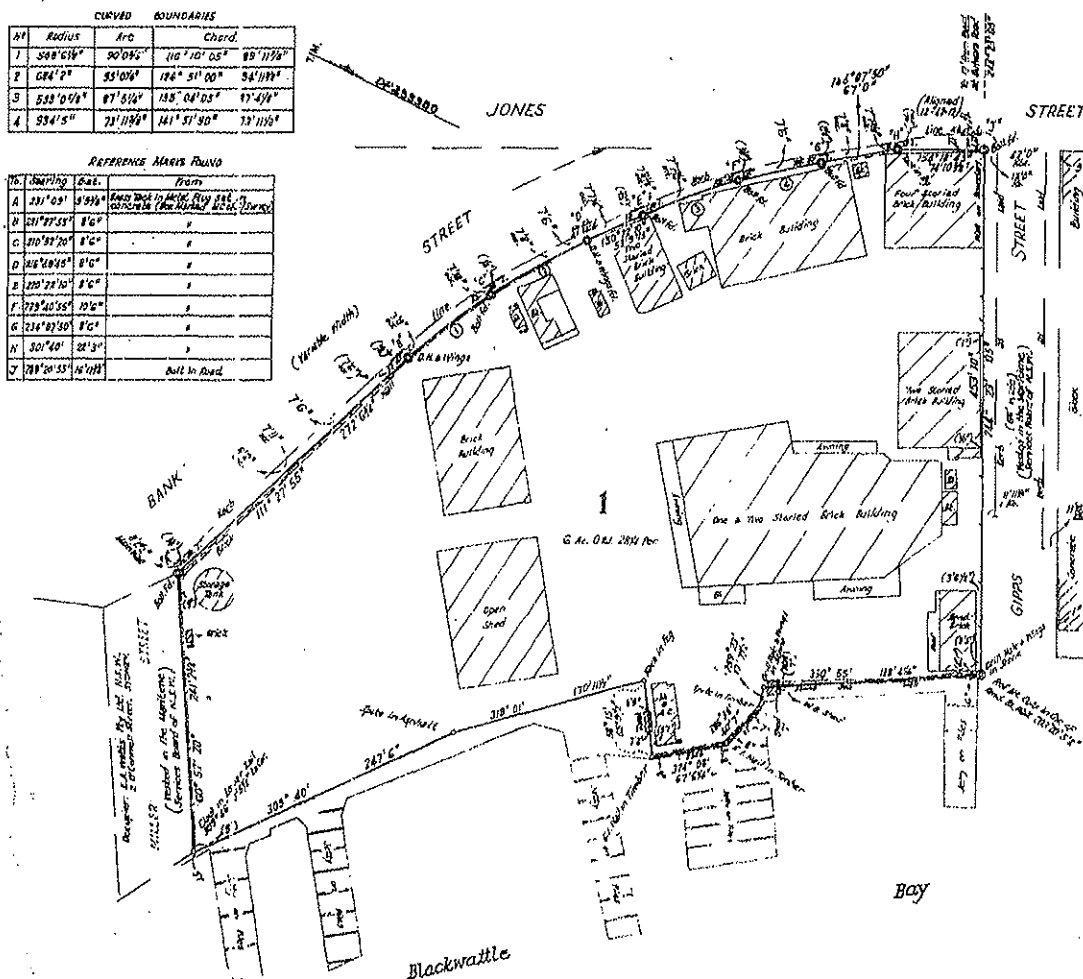


PLAN SHOWING LOCATION OF LAND

(Page 1) Vo

CURVED BOUNDARIES		
AP	Radius	Chord
1	508' 6 1/2"	90' 0 1/2"
2	684' 1"	55' 0 1/2"
3	513' 0 1/2"	87' 5 1/2"
4	584' 5"	71' 1 1/2"

REFERENCE MARKS FOUND		
No.	Description	From
A	231' 0 1/2"	From
B	231' 0 1/2"	From
C	231' 0 1/2"	From
D	231' 0 1/2"	From
E	231' 0 1/2"	From
F	231' 0 1/2"	From
G	231' 0 1/2"	From
H	231' 0 1/2"	From
I	231' 0 1/2"	From



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 233350 at Pyrmont in the City of Sydney Parish of St. Andrew and County of Cumberland being part of 135 acres granted to John Harris on 1-1-1806 and being 3 acres 2 roods 21 1/2 perches granted by Crown Grant Volume 819 Folio 200 and 30 1/2 perches granted by Crown Grant Volume 2088 Folio 91. EXCEPTING THEREOUT the mines of coal reserved by Crown Grant Volume 819 Folio 200 and the minerals reserved by Crown Grant Volume 2088 Folio 91.

FIRST SCHEDULE (continued overleaf)

THE NEW SOUTH WALES LAND AUTHORITY.

SECOND SCHEDULE (continued overleaf)

- Reservations and conditions, if any, contained in the Crown Grants above referred to.
- ~~Covenant created by Trust Deed No. K150554 as to part. Released M228061~~
- Mortgage No. K150553 of part of the land above described formerly comprised in Certificates of Title Volume 2088 Folio 91, Volume 3552 Folio 17, Volume 3614 Folio 199 and Volume 6871 Folio 250 to The Shell Company of Australia Limited. Entered 15-11-1965.
- ~~Covenant contained in Deed No. K2766 No. 415 as to part. Released M228062~~
- Mortgage Deed Book 2766 No. 415 of the part of the land above described comprised in Application No. 45651 to The Shell Company of Australia Limited.
- Mortgage No. K661423 as to part of the land above described formerly comprised in Certificates of Title Volume 2088 Folio 91, Volume 3552 Folio 17, Volume 3614 Folio 199 and Volume 6871 Folio 250 to Rural Bank of New South Wales. Entered 8-5-1967.

J. Watson
Registrar General.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	NATURE	INSTRUMENT NUMBER	DATE	ENTERED	Signature of Registrar-General
 Fish Marketing Authority Fleet Owners Pty. Limited as regards lot 1 in D.P. 545500 and Fish Marketing Authority as regards the residue.	Application	1991957	22.9.1973	15.2.1973	<i>J. J. Ireland</i>
This deed is cancelled as to <u>Article 3</u> entire on <u>23.3.1973</u> New Certificates of title have been issued as follows:- for lots in <u>deposited</u> Plan No. 545500 as follows:- lots <u>1 & 2</u> Vol 12073 Folio 49 & 50 respectively.	Transfer	191633	8.3.1971	15.2.1973	<i>J. J. Ireland</i>
<i>J. J. Ireland</i>  REGISTRAR GENERAL					

This deed is cancelled as to 3 whole 23-3-1973
New Certificates of title have issued on
for lots in Deposited Plan No. 515500 as follows:-
13 1973 51210 450 respectively.



Janaband

SECOND SCHEDULE (continued)

NATURE	INSTRUMENT NUMBER		DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION
Mortgage	L 871/44		15.1.1918	A part of the land within described comprised in Application No 45651 to Rural Bank of New South Wales	21.1.1918 6.8.1918	<i>J. J. J.</i>	
Discharge	M 191630		8.3.1921	of Mortgage Nos K 150 555, 287144, 287142 and			
	M 191631		22.1.1921	Mortgage No 416 Book 2746 in regard to Lot 1 in D.P.			
	M 191632		8.3.1921	545500 and Mortgage No 45651/428 in regard to that part			
	M 191633		20.1.1921	of Lot 1 in D.P. 545500 previously comprised in Volume 6871			
				Page 200 (respectively)	15.2.1923	<i>J. J. J.</i>	

ENTRIES FILED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

18 1990/33

State of New South Wales

Land Grant
Register Book
Vol 1st

2088 91

Grant of Land



Under the Crown Lands Acts of 1884 and 1896

George V by the Grace of God of the United Kingdom
of Great Britain and Ireland and of the British Dominions
beyond the Seas King Defender of the Faith Emperor of India

To all to whom these Presents shall come Greeting:

Whereas on or about the fifth day of December one thousand eight hundred and ninety two the English, Scottish and
Australian Bank Limited then being the owner of one acre twenty perches and five acres seven perches and one half of a perch of land in
the Parish of St Andrew County of Cumberland on the frontage of which the land hereinafter described and intended to be hereby granted
is situated duty was applied for and paid under the 4th Section of the Crown Lands Act of 1884 an area of thirty
perches and one half of a perch hereinafter described and intended to be hereby granted forming part of the lot or share of the Port as
defined by the Sydney Harbour Trust Act 1892 which application was on the seventh day of December one thousand nine hundred and
nine approved by the Governor and Executive Council of our State of New South Wales in the name of James Cocke and the sum of
Three hundred and twenty pounds being the appraised value of the said thirty perches and one half of a perch hereinafter described
and intended to be hereby granted as determined by appraisement as by law required was on the first day of January one thousand one
hundred and nine paid into the Treasury of our said State **And whereas** J. Cocke and J. Smith hereinafter called the said
company is now the owner in fee simple of the said area of one acre twenty perches and five acres seven perches and one half of a perch
in the frontage of which the land hereinafter described is situated **And whereas** all things necessary under the provisions of
Section 44 of the Crown Lands Act of 1884 and Section 24 of the Crown Lands Act of 1896 and otherwise required by law have
been done to authorize the issuing of this grant in manner hereinafter appearing **Now know ye** that for and in
consideration of the said sum of Three hundred and twenty pounds paid on behalf well and truly paid into the
Treasury of our said State We with the advice of our Executive Council of our said State have granted and for us our
Heirs and Successors do hereby grant unto the said company and its assigns to hold as hereinafter mentioned subject to the
several and respective provisions, conditions hereinafter mentioned **All** that piece or parcel of land in our said
State containing by admeasurement thirty perches and one half of a perch to be the same more or less situated in the County of
Cumberland Parish of St Andrew at Agreement near Sydney near the North Western side of Lyffe Street commencing on the
original High Water Mark of Blackwattle Bay Port Jackson which High Water mark forms the boundary of one acre twenty
perches the property of J. Cocke and J. Smith limited at the Western corner of two acres seven perches and one half of a perch purchased by
John Harris under the 4th Section of the Crown Lands Alteration Act of 1881 and now the property of J. Cocke and J. Smith
and which two acres seven perches and one half of a perch forms part of three acres seven perches and one half of a perch
purchased by the said John Harris under the 4th Section aforesaid and bounded thereon to the North East by the South Western
boundary of that two acres seven perches and one half of a perch bearing South West by South eighty eight degrees four
minutes eighteen inches and one half of a inch to the South East by a line bearing South fifty four degrees fifty eight minutes thirty
four inches and one eighth of a inch to the South West against to the South East to the South and again to the South West by a line

hearing North: thirty eight degrees twenty two minutes that line down eighty four links and two fifths of a link. South: thirty two
degrees fifty nine minutes that line thirty two links and seven tenths of a link. North: thirty two degrees thirty six minutes that line
one half of a link and three fourths. North: thirty five degrees twelve minutes that line one half of a link and three fourths of a link. On the North side
by a line bearing North: thirty eight degrees fifty one minutes that line one half of a link and three fourths of a link to the aforesaid High Water mark.
and on all other sides by said High Water mark. Having carefully looked and viewed the said land to the point of commencement the for
then done. With all the rights and appurtenances whatsoever thereto belonging. **It is hereby declared** that the said Company and its assigns
for ever hereafter notwithstanding **And** it is hereby declared that the said Company and its assigns and to the
Governor for the time being of our said State full power and authority to resume for public purposes by a resolution to be published in
the Government Gazette the land hereby granted or any portion thereof in or upon such resolution the land so resumed shall vest in us
our Heirs and Successors freed and discharged from all present rights interests titles and estates and no other compensation shall be
payable than the value of any improvements upon the land resumed effected with the written approval of the Minister for Lands
first had and obtained together with a repayment of the purchase money and of the cost of reclamation or if the land so resumed be
a portion only of the land reclaimed and hereby granted a fair proportion of such purchase money and cost as aforesaid. **And** the
said Company further reserve unto us our Heirs and Successors all Minerals which may be contained in or under the said land
hereby granted **And** the said Company reserve unto its Heirs and Successors and to the Governor for the time being of our said
State by such person or persons as shall be by its Heirs or Heirs authorized in that behalf full power to make and conduct
through in under upon or over the said land or any portion thereof all common or public drains and sewers which may be
demanded or desired and also the right of full and free ingress egress and regress into and out of and under the said land for the said
purposes aforesaid or any of them. **Provided** notwithstanding **And** it is hereby declared that goods merchandise and things in respect
of which Wharfage rates would have been payable had the reclaimed land hereabove vested in the Sydney Harbour Trust Commissioners
shall be exempted from or shipped or any land berthed or moored at the land hereby granted or in any pier wharf or
unwharfed on to or across the land hereby granted under the powers conferred in writing of the said Commissioners shall have
been obtained. **Provided** further and it is hereby declared that this our Grant is subject to a condition that the said
Company and its assigns shall at all times hereafter maintain and keep in a good and substantial state of repair the seawall
erected in the land hereby granted to the satisfaction of the Sydney Harbour Trust Commissioners so as to protect the said land from
encroachment. **Provided** that on breach or nonobservance of any of the above conditions the said land hereby granted shall be forfeited
and immediately revert to us our Heirs and Successors and therefore this our Grant shall be null and void. **And** having
whereof We have caused this our Grant to be sealed with the Seal of our said State.

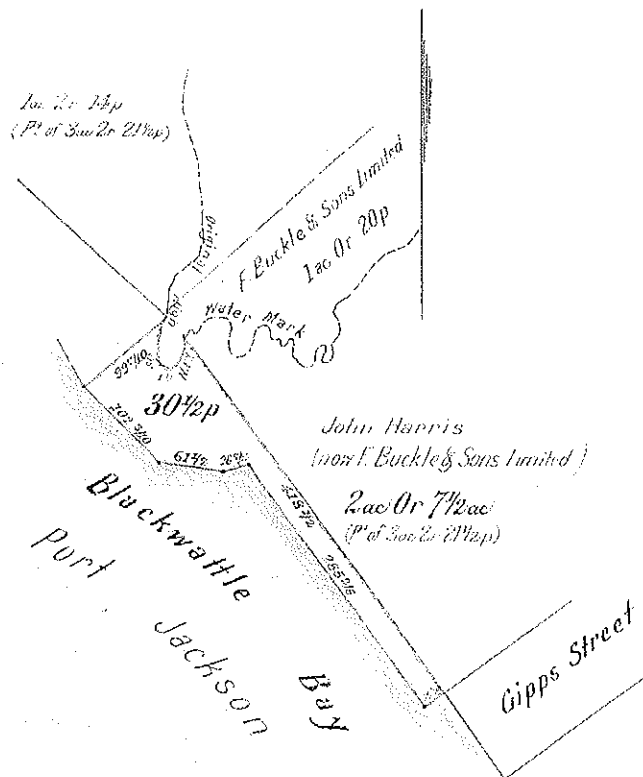
Witness Our Right Trusty and Well beloved
Justice John Edgar Bowen Attorney General, Knight Commander of
Our Most Distinguished Order of Saint Michael and Saint George,
our Governor of our State of New South Wales and its Dependencies
in the Commonwealth of Australia at Sydney in our said State
this seventh day of September in the first year of
our reign and in the year of our Lord one thousand nine hundred and

[Signature]

[Signature]
Per _____

2088-91

Plan referred to



Scale 100 feet to an inch

Recorded and enrolled in the Registrar General's Office at Sydney on the South Coast New South Wales
day of September 1910

Wille

Deputy Registrar General

No. 658712. Lease dated 17th May 1911.
from the said J. Buckle and Sons Limited to the British
Imperial Oil Company Limited of part of the land
within described. The right of way is a
right of way created by the said lease.
Produced and entered 17th May 1911
at 10 o'clock in the forenoon.

SURRENDER of the within Lease No. 658712
dated 17th May 1911. Produced and entered
at 10 o'clock in the forenoon.
1911.

No. A 31211. Lease dated 17th November 1911
from the said J. Buckle and Sons Limited to the
British Imperial Oil Company Limited of part of the land
within described. The right of way is a
right of way created by the said lease.
Produced and entered 17th November 1911
at 10 o'clock in the forenoon.

No. A 32215. TRANSFER dated 22nd December 1911
from the said J. Buckle and Sons Limited to the
British Imperial Oil Company Limited of part of the land
within described. The right of way is a
right of way created by the said lease.
Produced and entered 22nd December 1911
at 10 o'clock in the forenoon.

No. 22219. TRANSFER dated 22nd December 1911
from the said J. Buckle and Sons Limited to the
British Imperial Oil Company Limited of part of the land
within described. The right of way is a
right of way created by the said lease.
Produced and entered 22nd December 1911
at 10 o'clock in the forenoon.

The within mentioned LEASE No. A 31211
has expired by effluxion of time.
Dated 1st May 1912. Vide 1912/125
1912.

The term for which the right of way created by Transfer No.
A 32215 was granted, has expired.

Dated 1st May 1930

1930

Deputy Registrar General

No. 8 of 1930. TRANSFER dated 21st March 1930
from the said J. Buckle and Sons Limited (as liquidators)
to the Shell Company of Australia Limited
of the land within described
Produced 21st March 1930 and entered 21st March 1930
at 10 o'clock in the afternoon.

1930. TRANSFER dated 21st March 1930
from the said J. Buckle and Sons Limited (as liquidators)
to the Shell Company of Australia Limited
of the land within described
Produced 21st March 1930 and entered 21st March 1930
at 10 o'clock in the afternoon.

No. within Transfer No. 1930/125. Vide 1930/125
1930.

No. 1930/125. TRANSFER dated 21st March 1930
from the said J. Buckle and Sons Limited (as liquidators)
to the Shell Company of Australia Limited
of the land within described
Produced 21st March 1930 and entered 21st March 1930
at 10 o'clock in the afternoon.

No. 1930/125. MORTGAGE dated 21st March 1930
to the Shell Company of Australia Limited
of the land within described
Produced 21st March 1930 and entered 21st March 1930
at 10 o'clock in the afternoon.

This deed is executed in the presence of the Registrar General
New South Wales at Sydney on the 21st day of March 1930
and is signed by the said J. Buckle and Sons Limited (as liquidators)
and the said Shell Company of Australia Limited.

Appn. No. _____
Reference to *last Certificate* _____
Vol. *1232* Fol. *1114* _____

New South Wales.



1792-32
[CERTIFICATE OF TITLE.]

REGISTER BOOK,
Vol. *3552* Fol. *17* _____

~~CANCELLED~~
~~CANCELLED~~ *17*

A. Buckle & Sons Limited Transfers under Foreclosure of Mortgage from *A. Buckle and Sons* Limited its Assignees to *A. Buckle & Sons Limited* as for mortgage
subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances, liens, and interests, as are notified hereon, in *that* piece of land situated at *Ullman*
in the *City of Sydney* Parish of *St Andrew*, and County of *New South Wales*
containing *Two acres seven and one half roods*, or thereabouts,
as shown in the Plan hereon and therein edged red, being delineated in the public map of the said land in the Department of Lands originally granted to *John Howard* by *James Grant* dated the fifteenth day of *November* one thousand eight hundred and eighty six registered in the Land Office under *Deposited Volume 117 Folio 100*

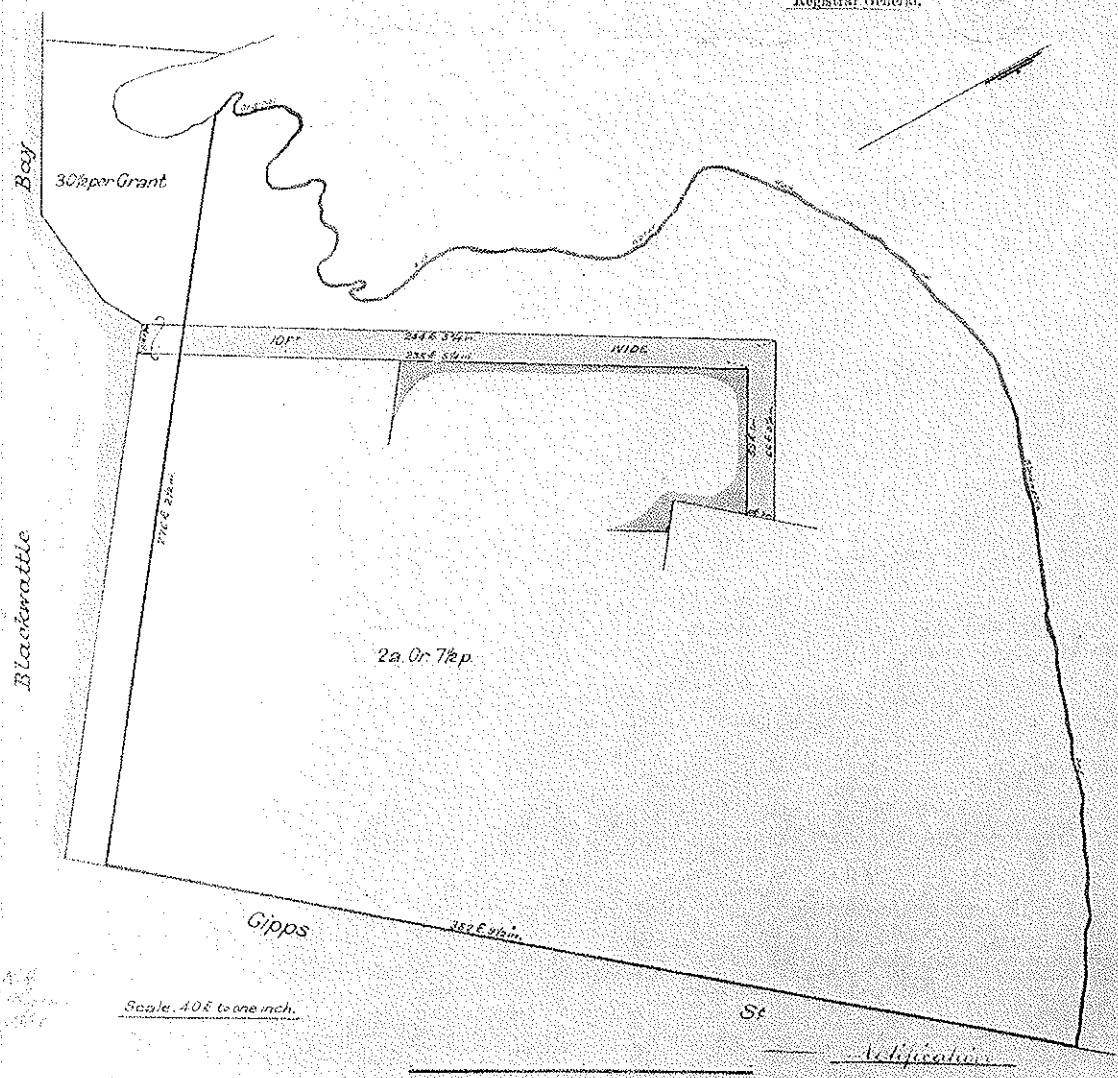
In witness whereof I have hereunto signed my name and affixed my Seal, this

22nd day of *January* 19*09*

Signed in the presence of *A. Henry*

}

A. H. Williams
Registrar General.



Verification referred to
The within mentioned Lease No. 1532145
has expired by effluxion of time.

Notarialis
Registrar General

1532145 Lease dated 1st day of November 1917
from the said Buckle & Sons Limited to the said
The Shell Company of Australia Limited
and entered the 11th day of November 1917 and
entered the 11th day of November 1917 as the whole in
the previous

Notarialis
Registrar General

1532145 Lease of 1st day of November 1917
has expired by effluxion of time. The price of
land 10 feet wide, entered the 11th day of November 1917
of purchase to land 1532145

Notarialis
Registrar General

The within mentioned LEASE No. 1532145
has expired by effluxion of time.
Dated 1st May 1920
Vide 1532145
Notarialis
REGISTRAR GENERAL

The term for which the right of way created by Transfer No. 1532145
was granted has expired.
Dated 1st May 1920
The Registrar
Notarialis
REGISTRAR GENERAL

No. 1532145 TRANSFER dated 21st March 1920
from the said Buckle & Sons Limited (liquidation) to
The Shell Company of Australia Limited
of the land within described
Produced 8th April 1920 and entered 1st May 1920
at 11 o'clock in the afternoon.
Notarialis
REGISTRAR GENERAL

The above Lease, which took effect as
a lease for 21 years from the date of the
transfer of the land to the said
The Shell Company of Australia Limited
and entered the 11th day of November 1917
Notarialis
REGISTRAR GENERAL

The within Lease No. 1532145, a lease
of land 10 feet wide, entered the 11th day of November 1917
of purchase to land 1532145
Notarialis
REGISTRAR GENERAL

No. 1532145 MORTGAGE dated 21st March 1920
to The Shell Company of Australia Limited
Entered 11th November 1917
Notarialis
REGISTRAR GENERAL

No. 1532145 MORTGAGE dated 21st March 1920
to The Shell Company of Australia Limited
Entered 8th May 1920
Notarialis
REGISTRAR GENERAL

This deed is entered as is The 11th day
New Certificate of Title dated 22nd May 1920
has been entered in the 11th day of November 1917
and entered the 11th day of November 1917
Notarialis
REGISTRAR GENERAL

Appn. No. _____
Reference to last certificate _____
Vol. 1232 Fol. 144

New South Wales.



[CERTIFICATE OF TITLE.]

Register Book, *W*
Vol. 3614 Fol. 199

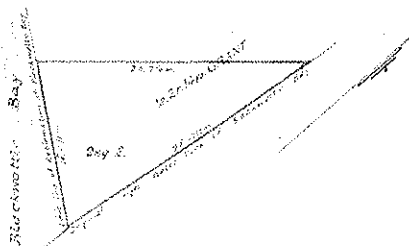
F. BUCKLE & SONS LIMITED, Transferee under Instrument of Transfer from F. Buckle and Sons Limited (in Liquidation) No. 3.98494 is now the proprietor of an Estate in Fee Simple, subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances, Rents, and interests, as are notified hereon, in that piece of land situated in the City of Sydney, in the Parish of St. Andrew, and County of Cumberland containing Two square feet, or thereabouts, as shown in the Plan hereon and therein edged red, being part of 1 acre & roods 14 perches delineated in the Public Map of the said Parish in the Department of Lands originally granted to John Harris by Crown Grant dated the fifteenth day of December One thousand eight hundred and eighty six registered in the Land Titles Office, Sydney, Volume 319 Folio 200.

In witness whereof I have hereunto signed my name and affixed my Seal, this

15th day of July, 1934.

Signed in the presence of

[Signature]
Registrar General.



Scale 1:50,000

NOTIFICATION REFERRED TO

Amongst the reservations and conditions contained in the Grant above referred to are reservations of all mines of coal.

[Signature]
Registrar General.

No. 123294 Lease dated the 15th day of June 1937 from John Harris to Robert Haze of Sydney, Contractor, produced and entered the 22nd day of June 1937 at 3 o'clock in the afternoon.

[Signature]
Registrar General.

No. 3.98494	TRANSFER dated 15th June 1937
from the said F. Buckle & Sons Limited (in Liquidation) to the said F. Buckle & Sons Limited (in Liquidation)	
of the land within described	
Produced 15th June 1937 and entered 22nd June 1937	
at _____ o'clock in the afternoon.	
<i>[Signature]</i> Registrar General.	

LEASE No. 123294	dated 15th June 1937
See 123294	
<i>[Signature]</i> Registrar General.	

The said lease is hereby registered	
The said lease is hereby registered	
<i>[Signature]</i> Registrar General.	

The said lease is hereby registered	
<i>[Signature]</i> Registrar General.	

The said lease is hereby registered	
<i>[Signature]</i> Registrar General.	

This card is cancelled as to 44-10015
New Certificate of Title have been on 201 (40)
for lot in DESHED 3350 at 1000
lot 1 val 1000 100 100

John

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

REGISTER BOOK,
Vol. 1282 Folio 144.

[illegible]

105610

The within Lease No. 2343, bearing
dated by reference of the
non-payment of the same, the
lease is cancelled. Dated 11th July 1915

Not Reliance
Registrar General

No. 2343. TRANSFER dated 11th July 1915
from the said *P. Buckle and Sons Limited (Liquidators)*
to *P. Buckle and Sons Limited (Liquidators)*
of the land within described
Produced and entered 11th July 1915
at 12 o'clock in the noon.
Cancelled & Certificate
of Title issued
Vol. 11th July 1915
Not Reliance
REGISTRAR GENERAL

No. 2343. Lease No. 2343, bearing
dated by reference of the
non-payment of the same, the
lease is cancelled. Dated 11th July 1915
Not Reliance
Registrar General

No. 2343. of the within Lease No. 2343
Produced and entered 11th July 1915
at 12 o'clock in the noon.
Not Reliance
REGISTRAR GENERAL

No. 2343. Lease No. 2343, bearing
from the said *P. Buckle and Sons Limited*
to *P. Buckle and Sons Limited*
Produced and entered 11th July 1915
at 12 o'clock in the noon.
Not Reliance
REGISTRAR GENERAL

No. 2343. TRANSFER dated 11th July 1915
from the said *P. Buckle and Sons Limited*
to *P. Buckle and Sons Limited*
Produced and entered 11th July 1915
at 12 o'clock in the noon.
Not Reliance
REGISTRAR GENERAL

No. 2343. SURRENDER of the within Lease
No. 2343, bearing
Produced and entered 11th July 1915
at 12 o'clock in the noon.
Not Reliance
REGISTRAR GENERAL

No. 2343. TRANSFER dated 11th July 1915
from the said *P. Buckle and Sons Limited*
to *P. Buckle and Sons Limited*
Produced and entered 11th July 1915
at 12 o'clock in the noon.
Cancelled & Certificate
of Title issued
Vol. 11th July 1915
Not Reliance
REGISTRAR GENERAL

Bay

Reclaimed Land

1' 2' 14"

259 ft



Blackwattle

216 ft 0 in

216 ft 0 in

216 ft 0 in

216 ft 0 in

216 ft 0 in

216 ft 0 in

216 ft 0 in

216 ft 0 in

216 ft 0 in

216 ft 0 in

216 ft 0 in

Scale 40 feet to an inch

HIGH

WATER

WATER

2^a 0' 7 1/2"

362 ft 0 in

Gipps

St.

Total area included in certificate
All land shown hereon is in the
State of Victoria

202

Primary Appa. No.
Reference to Last Title
Vol. 6748 Fol. 59

New South Wales.

[CERTIFICATE OF TITLE.]



CANCELLED
REGISTER BOOK
Vol. 6817 Fol. 250
Issued on Transfer No. 66575
27/24466

GILBERT THORNE SECOMBE, of Liverpool, Civil Engineer, is now the proprietor of an Estate in Fee Simple,
subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances,
liens, and interests as are notified hereon, in That piece of land situated
in the Municipality of Liverpool Parish of St. Luke, and County of Cumberland
shown in the plan hereon and therein edged red being Lot 27 in Deposited Plan No. 24466 and being part of Portion 347
granted on 9th December 1924 by Crown Grant Volume 3678 Folio 55.
EXCEPTING THEREOUT the minerals reserved by the Crown Grant.

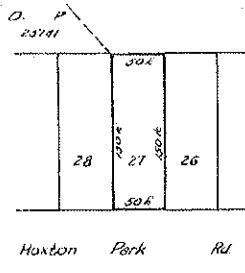
In witness whereof I have hereunto signed my name and affixed my Seal, this

Third day of June, 1962.

Signed in the presence of

E. J. Boynton

J. H. Pells
Registrar-General.



Area: 27 1/2 per

Size: 100 feet to each side

NOTIFICATION REFERRED TO

Covenant contained in Transfer No. 66575.

J. H. Pells
Registrar-General.



Mortgage No. 66576 dated 22nd April 1954
from the said Gilbert Thorne Secombe to the
Permanent for Charitable Building
Society of Australia Limited
Produced 14th May 1954 and entered 1st June 1954
at 12 noon.
J. H. Pells
Registrar-General.

Mortgage No. 66576
J 64540 Entered 30th July 1962
J. H. Pells
Registrar-General.

Alma Ruth Secombe of Liverpool,
Widow, is
now the registered proprietor of the land within described.
See Section 24 Application No. J 64541
Entered 30th July 1962
J. H. Pells
Registrar-General.

Patricia Caroline Corrie of Liverpool,
Spinster, is
now the registered proprietor of land within described.
See Transfer No. J 64542 1st March 1962
Entered 30th July 1962
J. H. Pells
Registrar-General.

J 64540
1st March 1962
1962

Persons are cautioned against altering or adding to this Certificate or any notification thereon.

The correct name of the Proprietor is
Patricia Carolyn Baker, wife of Edwin
Lewis Baker, of Liverpool, Merseyside, England.
See K938574. Entered 8th February 1968.

Jameson
Registrar General

No. K938574 MORTGAGE dated 12th January 1968
to Barclays Bank of New South
Wales
Entered 8th February 1968
Jameson
REGISTRAR GENERAL

MORTGAGE No. K938574 has been discharged.
See M183792 Entered 11th March 1971.
Jameson
REGISTRAR GENERAL

K938574 created by Person to Person Financial Services Pty Ltd.
Registered 12-4-1977

Jameson
REGISTRAR GENERAL

Created via R243612 by Person to Person
Financial Services Pty Limited
Registered 5-6-1974

Jameson
Registrar General

COMPUTER FOND CREATION, NO FURTHER
DEALINGS TO BE REGISTERED.

Jameson
Registrar General

CERTIFICATE OF TITLE.

(C.)

New South Wales.

[Reference to Grant Certificate.]

[Vol. 519 Folio 200]



REGISTER BOOK,

Vol. 1304 Folio 63

Francis Buckle

of Sydney, Gentleman, Transfers under Instrument
numbered 300422 is now the proprietor of an Estate in the County of Cumberland, containing One acre two roods fourteen and nine tenths perches, situate on the original high water mark of Blackwattle Bay, at its intersection with the South Western side of Poppy Bay, and bounded thereon on the North East by that bay, bearing North West by eighty links to the South Western extension of Market Street, on the North West by that extension, bearing South West by three chains seventy four and one quarter links, on the South West by lines bearing South East by three chains seventy five links and two chains fifty six and three quarters links to land of the English, Scottish, and Australian Bank Limited, on the South East by that land bearing North East by four links to the original high water mark aforesaid, and on the North East by that high water mark bearing North West by the point of commencement as shown on the plan hereto and thereunto made, being part of One acre two roods fourteen perches delineated in the Public Map of the said Parish deposited in the Office of the Surveyor General, originally granted to John Harris by Commission dated the Fifteenth day of December One thousand eight hundred and eighty six Registered in the Land Titles Office, Sydney, Volume 519 Folio 200.

In witness whereof, I have hereunto signed my name and affixed my Seal, this Twenty sixth day of December one thousand eight hundred and ninety nine.

Signed the 26th day of December 1899, in the presence of

[Signature]
Deputy Registrar General.

NOTIFICATION REFERRED TO.

Amongst the assumptions and conditions contained in the Grant above referred to are the following, namely:—
Reservations of one eighth of an acre.

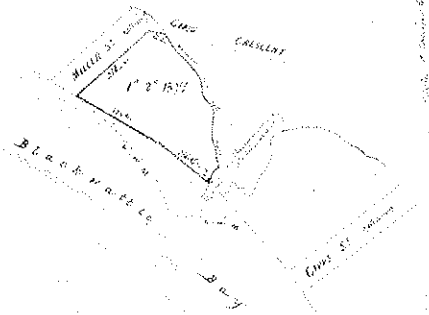
[Signature]

Deputy Registrar General.

At 12.25.29 I have dated the Twelfth day of June One thousand eight hundred and eighty seven from John Harris to Robert George of Sydney, Transferee produced and entered in Register Book the Twenty second day of June One thousand eight hundred and eighty seven at three o'clock in the afternoon.

[Signature]

Deputy Registrar General.



No. 111123 MORTGAGE DATED 6 December 1894
FROM THE WITHIN NAMED Francis Buckle
TO THE Australian Mutual Provident Society
PRODUCED 12th July 1903
at 12 o'clock in the afternoon
and entered 14 December 1903
at 12 o'clock in the afternoon
LEPREGG CEN.

No. 368011 TRANSFER DATED 24 July 1903
FROM THE SAID Francis Buckle
TO THE Australian Mutual Provident Society
PRODUCED & ENTERED 12th July 1903
at 12 o'clock in the afternoon
DEPUTY REGISTRAR GENERAL

DISCHARGE of MORTGAGE No. 111123
DATED 27 July 1903 PRODUCED & ENTERED
at 12 o'clock in the afternoon
DEPUTY REGISTRAR GENERAL

No. 1201115 MORTGAGE DATED 27 July 1903
FROM THE SAID Francis Buckle
TO THE Australian Mutual Provident Society
PRODUCED & ENTERED 27th July 1903
at 12 o'clock in the afternoon
DEPUTY REGISTRAR GENERAL

No. A 111123 DISCHARGE of within Mortgage
No. 111123 Dated 12th December 1903
Produced 26th November 1903 and entered
at 12 o'clock in the afternoon
REGISTRAR GENERAL

No. 48444 TRANSFER dated 24th June 1904
from the said Francis Buckle and Sons Limited
to the Australian Mutual Provident Society
PRODUCED and entered 24th June 1904
at 12 o'clock in the afternoon
REGISTRAR GENERAL

No. 81111 TRANSFER dated 24th June 1904
from the said Francis Buckle and Sons Limited
to the Australian Mutual Provident Society
PRODUCED and entered 24th June 1904
at 12 o'clock in the afternoon
REGISTRAR GENERAL

No. 111123 Application under 11 of the Land Property
(Amendment) Act 1901. The Council of the City of
Sydney
is registered as proprietor of the land as described.
Produced 12th July 1903 and entered 14th July 1903
at 12 o'clock in the afternoon
J. H. Pells
REGISTRAR GENERAL

At the request of the holder
this deed is cancelled and new Certificate of Title issued
Vol 6871 fol 250
vide 069444
J. H. Pells
REGISTRAR GENERAL



(Site History Documents – WorkCover Records)

27 MAY 2010

Our Ref: D10/065730
Your Ref: Brendan Page

25th May 2010

Attention: Mr Brendan Page
Environmental Investigation Services
PO Box 976
NORTH RYDE BC NSW 1670

Dear Mr Page,

RE SITE: 56-60 Pyrmont Bridge Road Pyrmont NSW

I refer to your site search request received by WorkCover NSW on 24 May 2010 requesting information on licences to keep dangerous goods for the above site.

A search of the Stored Chemical Information Database (SCID) and the microfiche records held by WorkCover NSW has not located any records pertaining to the above-mentioned premises.

If you have any further queries please contact the Dangerous Goods Licensing Team on (02) 4321 5500.

Yours Sincerely



Diana Hayes

Senior Licensing Officer
Dangerous Goods Team

WorkCover. **Watching out for you.**



APPENDIX D

(Sampling Protocols and QA/QC Definitions)



SOIL AND GROUNDWATER SAMPLING PROTOCOLS

These protocols specify the basic procedures to be used when sampling soils or groundwater for environmental site assessments undertaken by EIS. The purpose of these protocols is to provide standard methods for: sampling, decontamination procedures for sampling equipment, sample preservation, sample storage and sample handling. Deviations from these procedures must be recorded.

Soil Sampling

- a) Prepare a test pit/borehole log.
- b) Layout sampling equipment on clean plastic sheeting to prevent direct contact with ground surface. The work area should be at a distance from the drill/rig excavator such that the drill rig/excavator can operate in a safe manner.
- c) Ensure all sampling equipment has been decontaminated prior to use.
- d) Remove any surface debris from the immediate area of the sampling location.
- e) Collect samples and place in glass jar with a Teflon seal. This should be undertaken as quickly as possible to prevent the loss of volatiles. If possible, fill the glass jars completely.
- f) Collect samples for asbestos analysis and place in a zip-lock plastic bag.
- g) Label the jar and/or bag with the EIS job number, sample location (eg. BH1), sampling depth interval and date. If more than one sample container is used, this should also be indicated (eg. 2 = Sample jar 1 of 2 jars).
- h) Photoionisation detector (PID) screening of volatile organic compounds (VOCs) should be undertaken on samples using the soil sample headspace method. Headspace measurements are taken following equilibration of the headspace gasses in partly filled zip-lock plastic bags. PID headspace data is recorded on the borehole/test pit log and the chain of custody forms.
- i) Record the lithology of the sample and sample depth on the borehole/test pit log in accordance with AS1726-1993³⁴.
- j) Store the sample in a sample container cooled with ice or chill packs. On completion of the sampling the sample container should be delivered to the lab immediately or stored in the refrigerator prior to delivery to the lab. All samples are preserved in accordance with AS 4482.1:2005, AS 4482.2:1999 and AS/NZS 5667.1:1998.
- k) Check for the presence of groundwater after completion of each borehole using an electronic dip metre or water whistle. Boreholes should be left open until the end of fieldwork. All groundwater levels in the boreholes should be rechecked on the completion of the fieldwork.

³⁴ *Geotechnical Site Investigations*, Standards Australia 1993 (AS1726-1993)



- l) Backfill the boreholes/test pits with the excavation cuttings or clean sand prior to leaving the site.

Decontamination Procedures for Soil Sampling Equipment

- a) All of the equipment associated with the soil sampling procedure should be decontaminated between every sampling location.
- b) The following equipment and materials are required for the decontamination procedure:
 - Phosphate free detergent (Decon 90)
 - Tap water
 - Stiff brushes
 - Plastic sheets
- c) Ensure the decontamination materials are clean prior to proceeding with the decontamination.
- d) Fill both buckets with clean tap water and add phosphate free detergent to one bucket.
- e) In the bucket containing the detergent scrub the sampling equipment until all the material attached to the equipment has been removed.
- f) Rinse sampling equipment in the bucket containing tap water.
- g) Place cleaned equipment on clean plastic sheets.

If all materials are not removed by this procedure, high-pressure water cleaning is recommended. If any equipment is not completely decontaminated by both these processes that equipment should not be used until it has been thoroughly cleaned.

Groundwater Sampling

Groundwater samples are more sensitive to contamination than soil samples and therefore adherence to this protocol is particularly important to obtain reliable, reproducible results. The recommendations detailed in AS/NZS 5667.1:1998 are considered to form a minimum standard.

The basis of this protocol is to maintain the security of the borehole and obtain accurate and representative groundwater samples. The following procedure should be used for collection of groundwater samples from previously installed groundwater monitoring wells.

- a) After groundwater monitoring wells installation, at least three bore volumes should be pumped from the monitoring wells (well development) to remove any water introduced during the drilling process and/or the water that is disturbed during installation of the groundwater monitoring wells. This should be completed prior to purging and sampling.



- b) Groundwater monitoring wells should then be left to recharge for at least three days before purging and sampling. Prior to purging or sampling the condition of each well should be observed and any anomalies recorded on the field data sheets. The following information should be noted: the condition of the well, noting any signs of damage, tampering or complete destruction; the condition and operation of the well lock; the condition of the protective casing and the cement footing (raised or cracked); and, the presence of water between protective casing and well.
- c) Take the groundwater level from the collar of the piezometer using an electronic dipmeter. The collar level should be taken (if required) during the site visit using a dumpy level and staff.
- d) Purging and sampling of piezometers is done on the same site visit when using micro-purge (or low flow) techniques. Layout and organize all equipment associated with groundwater sampling in a location where they will not interfere with the sampling procedure and will not pose a risk of contaminating samples. Equipment generally required includes:
 - Micropore filtration system or Stericup single-use filters (for heavy metals samples).
 - Filter paper for Micropore filtration system.
 - Bucket with volume increments.
 - Sample containers: teflon bottles with 1 ml nitric acid, 75mL glass vials with 1 mL hydrochloric acid, 1 L amber glass bottles.
 - Bucket with volume increments.
 - Flow cell.
 - pH/EC/Eh/T meters.
 - Plastic drums used for transportation of purged water.
 - Esky and ice.
 - Nitrile gloves.
 - Distilled water (for cleaning).
 - Electronic dip meter.
 - Micro-purge pump pack and pump head.
 - Air and water tubing for Micro-purge.
 - Groundwater sampling forms.
- e) If single-use stericup filtration is not being used, clean the Micropore filtration system thoroughly with distilled water prior to use and between each sample. Filter paper should be changed between samples. 0.45um filter paper should be placed below the glass fibre filter paper in the filtration system.
- f) Ensure all non-disposable sampling equipment is decontaminated or that new disposable equipment is available prior to any work commencing at a new location. The procedure for decontamination of groundwater equipment is outlined at the end of this section.



- g) Disposable gloves should be used whenever samples are taken to protect the sampler and to assist in avoidance of contamination.
- h) Groundwater samples are obtained from the monitoring wells using low flow/micro-purge sampling equipment to reduce the disturbance of the water column and loss of volatiles.
- i) During pumping to purge the well, the pH, temperature, conductivity, dissolved oxygen, redox potential and groundwater levels are monitored (where possible) using calibrated field instruments to assess the development of steady state conditions. Steady state conditions are generally considered to have been achieved when the difference in the pH measurements was less than 0.2 units and the difference in conductivity was less than 10%.
- j) All measurements are recorded on specific data sheets.
- k) Once steady state conditions are considered to have been achieved, groundwater samples are obtained directly from the pump tubing and placed in appropriate glass bottles, BTEX vials or plastic bottles.
- l) All samples are preserved in accordance with water sampling requirements detailed in the NEPM Guidelines (1999) and placed in an insulated container with ice. Groundwater samples are preserved by immediate storage in an insulated sample container with ice in accordance with AS/NZS 5667.1-1 998.
- m) Record the sample on the appropriate log in accordance with AS 1726-1 993. At the end of each water sampling complete a chain of custody form.

Decontamination Procedures for Groundwater Sampling Equipment

- a) All of the equipment associated with the groundwater sampling procedure (other than single-use items) should be decontaminated between every sampling location.
- b) The following equipment and materials are required for the decontamination procedure:
 - Phosphate free detergent.
 - Tap water.
 - Distilled water
 - Plastic Sheets or bulk bags (plastic bags)
- c) Fill one bucket with clean tap water and phosphate free detergent, and one bucket with distilled water.
- d) Flush tap water and detergent through pump head. Wash sampling equipment and pump head using brushes in the bucket containing detergent until all materials attached to the equipment are removed.
- e) Flush pump head with distilled water.
- f) Change water and detergent solution after each sampling location.
- g) Rinse sampling equipment in the bucket containing distilled water.



- h) Place cleaned equipment on clean plastic sheets.
- i) If all materials are not removed by this procedure that equipment should not be used until it has been thoroughly cleaned



QA/QC DEFINITIONS

The QA/QC terms used in this report are defined below. The definitions are in accordance with US EPA publication SW-846, entitled *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (1994³⁵) methods and those described in *Environmental Sampling and Analysis, A Practical Guide*, (H. Keith 1991³⁶).

Practical Quantitation Limit (PQL), Limit of Reporting (LOR) and Estimated Quantitation Limit (EQL)

These terms all refer to the concentration above which results can be expressed with a minimum 95% confidence level. The laboratory reporting limits are generally set at ten times the standard deviation for the Method Detection limit (MDL) for each specific analyte. For the purposes of this report the LOR, PQL, and EQL are considered to be equivalent.

When assessing laboratory data it should be borne in mind that values at or near the PQL have two important limitations. *"The uncertainty of the measurement value can approach, and even equal, the reported value. Secondly, confirmation of the analytes reported is virtually impossible unless identification uses highly selective methods. These issues diminish when reliably measurable amounts of analytes are present. Accordingly, legal and regulatory actions should be limited to data at or above the reliable detection limit"*, Keith (1 991).

Precision

The degree to which data generated from repeated measurements differ from one another due to random errors. Precision is measured using the standard deviation or Relative Percent Difference (RPD). Acceptable targets for precision in this report will be less than 50% RPD for concentrations greater than ten times the PQL, less than 75% RPD for concentrations between five and ten times the PQL and less than 100% RPD for concentrations that are less than five times the PQL.

Accuracy

Accuracy is a measure of the agreement between an experimental result and the true value of the parameter being measured. The assessment of accuracy for an analysis can be achieved through the analysis of known reference materials or assessed by the analysis of surrogates, field blanks, trip spikes and matrix spikes.

³⁵ SW-846: *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, US EPA, 1994 (US EPA SW-846)

³⁶ *Environmental Sampling and Analysis, A Practical Guide*, Keith, H, 1991 (Keith 1991)



The proximity of an averaged result to the true value, where all random errors have been statistically removed. Accuracy is measured by percent recovery. Acceptable limits for accuracy generally lie between 70% to 130% recoveries. Certain laboratory methods may allow for values that lie outside these limits.

Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is primarily dependent upon the design and implementation of the sampling program. Representativeness of the data is partially ensured by the avoidance of contamination, adherence to sample handling and analysis protocols and use of proper chain-of-custody and documentation procedures.

Completeness

Completeness is a measure of the number of valid measurements in a data set compared to the total number of measurements made and overall performance against DQIs. The following information is assessed for completeness:

- Chain-of-custody forms;
- Sample receipt form;
- All sample results reported;
- All blank data reported;
- All laboratory duplicate and RPDs calculated;
- All surrogate spike data reported;
- All matrix spike and lab control spike (LCS) data reported and RPDs calculated;
- Spike recovery acceptable limits reported; and
- NATA stamp on reports.

Comparability

Comparability is the evaluation of the similarity of conditions (eg. sample depth, sample homogeneity) under which separate sets of data are produced. Data comparability checks include a bias assessment that may arise from the following sources:

- Collection and analysis of samples by different personnel;
- Use of different techniques;
- Collection and analysis by the same personnel using the same methods but at different times; and
- Spatial and temporal changes (due to environmental dynamics).



Blanks

The purpose of laboratory and field blanks is to check for artifacts and interferences that may arise during sampling and analysis.

Matrix Spikes

Samples are spiked with laboratory grade standards to detect interactive effects between the sample matrix and the analytes being measured. Matrix Spikes are reported as a percent recovery and are prepared for 1 in every 20 samples. Sample batches that contain less than 20 samples may be reported with a Matrix Spike from another batch. The percent recovery is calculated using the formula;

$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Concentration of Spike Added}} \times 100$$

Acceptable recovery limits are 70% to 130%.

Surrogate Spikes

Samples are spiked with a known concentration of compounds that are chemically related to the analyte being investigated but unlikely to be detected in the environment. The purpose of the Surrogate Spikes is to check the accuracy of the analytical technique. Surrogate Spikes are reported as percent recovery.

Duplicates

Laboratory duplicates measure precision, expressed as Relative Percent Difference. Duplicates are prepared from a single field sample and analysed as two separate extraction procedures in the laboratory. The RPD is calculated using the formula where D1 is the sample concentration and D2 is the duplicate sample concentration:

$$\frac{(D1 - D2)}{\{(D1 + D2)/2\}} \times 100$$



APPENDIX E
(Groundwater Monitoring Data Sheets and Equipment Calibration
Records)

Calibration

***** Calibrate: DO

Date 24/05/10 DD/MM/YY
Time 09:57:14 24-hour
User ID: BP

Method DO Air Calibrate
Cal Value: 100.000000 %
Sensor Value: 3.161354 uA
Sensor Type Polarographic
Membrane Type 1.25 PE Yellow
Salinity Mode 3.161354 Auto
Temperature 15.300000 %C2%B0C
Barometer 764.500000 mmHg
Calibrate Status Calibrated

***** Calibrate: ORP

Date 24/05/10 DD/MM/YY
Time 09:53:07 24-hour
User ID: BP

Cal Solution Value: 245.130005 ORP mV
Sensor Value: 251.300003 ORP mV
Temperature 14.900000 %C2%B0C
Calibrate Status Calibrated

***** Calibrate: pH

Date 24/05/10 DD/MM/YY
Time 09:48:04 24-hour
User ID: BP

Buffer Value 7.045561 pH
Sensor Value: -15.900000 pH mV
Temperature 14.749994 %C2%B0C

Buffer Value 4.000599 pH
Sensor Value: 160.000000 pH mV
Temperature 14.649988 %C2%B0C

Slope 59.844717 mV/pH
Slope 93.400932 % of Ideal pH value
Calibrate Status Calibrated

***** Calibrate: Conductivity

Date 24/05/10 DD/MM/YY
Time 09:45:51 24-hour
User ID: BP

Method Sp. Conductance
Cal Value: 1346.000000 SPC-uS/cm
Sensor Value: 1346.000000 SPC-uS/cm
Temperature Ref. 25.000000 %C2%B0C
Temperature Comp. 1.910000 %/C
TDS Constant 0.650000
Temperature 14.800000 %C2%B0C
Cal Cell Constant: 4.786805
Calibrate Status Calibrated

| Timestamp | Conductivity (uS/cm) | Dissolved Oxygen (mg/L) | ORP_1 (mV) | pH_1 (Units) | Temperature (C Site | Folder |
|------------------|----------------------|-------------------------|------------|--------------|----------------------|--------|
| 24/05/2010 12:27 | 6 | 8.6 | 158.2 | 7.94 | 19.3 E23982K Pyrmont | MW508 |
| 24/05/2010 12:27 | 75.2 | 8.5 | 122 | 8.18 | 19.4 E23982K Pyrmont | MW508 |
| 24/05/2010 12:28 | 259.4 | 6.4 | 119.7 | 9.16 | 21 E23982K Pyrmont | MW508 |
| 24/05/2010 12:28 | 446.2 | 3.9 | 91.8 | 9.5 | 22.2 E23982K Pyrmont | MW508 |
| 24/05/2010 12:28 | 477.3 | 2.1 | 96.9 | 9.59 | 22.5 E23982K Pyrmont | MW508 |
| 24/05/2010 12:29 | 504 | 1 | 98.2 | 8.59 | 22.8 E23982K Pyrmont | MW508 |
| 24/05/2010 12:29 | 558 | 0.5 | 77.4 | 8.32 | 23 E23982K Pyrmont | MW508 |
| 24/05/2010 12:29 | 624 | 0.5 | 72.3 | 7.78 | 23.1 E23982K Pyrmont | MW508 |
| 24/05/2010 12:30 | 632 | 0.4 | 37.1 | 7.73 | 23.3 E23982K Pyrmont | MW508 |
| 24/05/2010 12:30 | 642 | 0.3 | 42.2 | 7.65 | 23.2 E23982K Pyrmont | MW508 |
| 24/05/2010 12:30 | 659 | 0.3 | 2 | 7.61 | 23.2 E23982K Pyrmont | MW508 |
| 24/05/2010 12:31 | 660 | 0.2 | -6.4 | 7.64 | 23.2 E23982K Pyrmont | MW508 |
| 24/05/2010 12:31 | 662 | 0.2 | -8.5 | 7.68 | 23.1 E23982K Pyrmont | MW508 |
| 24/05/2010 12:31 | 661 | 0.2 | -25.7 | 7.72 | 23.1 E23982K Pyrmont | MW508 |
| 24/05/2010 12:32 | 660 | 0.2 | -28.7 | 7.73 | 23.1 E23982K Pyrmont | MW508 |
| 24/05/2010 12:32 | 661 | 0.2 | -29.9 | 7.74 | 23.1 E23982K Pyrmont | MW508 |

| Timestamp | Conductivity (uS/cm) | DO (mg/L) | ORP_1 (mV) | pH_1 (Units) | Temp (C) | Site | Folder |
|------------------|----------------------|-----------|------------|--------------|----------|----------------|--------|
| 24/05/2010 12:00 | 146.9 | 6.7 | 142 | 7.65 | 21.7 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:01 | 122.4 | 6.8 | 144.1 | 7.52 | 21 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:01 | 488.7 | 5.9 | 125.3 | 7.44 | 20 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:01 | 607 | 4.1 | 101.8 | 7.39 | 19.7 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:02 | 607 | 2.1 | 79.5 | 7.36 | 19.5 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:02 | 572 | 0.9 | 38.3 | 7.25 | 19.6 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:02 | 574 | 0.6 | 3.5 | 7.18 | 19.7 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:03 | 575 | 0.4 | -20.4 | 7.16 | 19.7 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:03 | 573 | 0.4 | -39.3 | 7.16 | 19.7 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:03 | 567 | 0.3 | -56 | 7.19 | 19.7 | E23982K Pyrmon | MW512 |
| 24/05/2010 12:04 | 568 | 0.3 | -69.2 | 7.2 | 19.7 | E23982K Pyrmon | MW512 |

[illegible]

| Timestamp | Conductivity (uS/cm) | DO (mg/L) | ORP_1 (mV) | pH_1 (Units) | Temp(C) | Site | Folder |
|------------------|----------------------|-----------|------------|--------------|---------|----------------|--------|
| 24/05/2010 10:16 | 43.2 | 9.8 | 279.8 | 6.76 | 15.5 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:16 | 42.7 | 8.8 | 281.8 | 6.75 | 15.6 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:16 | 782 | 3.2 | 227.6 | 6.48 | 22.1 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:17 | 761 | 1.2 | 203.4 | 6.42 | 22.3 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:17 | 751 | 0.5 | 168.7 | 6.38 | 22.4 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:17 | 751 | 0.4 | 154.9 | 6.38 | 22.5 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:18 | 751 | 0.3 | 152.1 | 6.39 | 22.6 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:18 | 751 | 0.3 | 149.9 | 6.4 | 22.6 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:18 | 750 | 0.2 | 146.3 | 6.42 | 22.7 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:19 | 750 | 0.3 | 164.9 | 6.44 | 22.7 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:19 | 750 | 0.2 | 143.3 | 6.44 | 22.7 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:19 | 749 | 0.3 | 137.8 | 6.44 | 22.7 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:20 | 747 | 0.3 | 157.9 | 6.44 | 22.7 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:20 | 746 | 0.6 | 147.2 | 6.46 | 22.7 | E23982K Pyrmon | MW513 |
| 24/05/2010 10:20 | 746 | 1.4 | 167.4 | 6.5 | 22.8 | E23982K Pyrmon | MW513 |

[illegible]

| Timestamp | Conductivity (uS/cm) | DO (mg/L) | ORP_1 (mV) | pH_1 (Units) | Temp (C) | Site | Folder |
|------------------|----------------------|-----------|------------|--------------|----------|----------------|--------|
| 24/05/2010 10:52 | 1.4 | 8.5 | 135.8 | 7.51 | 21.9 | E23982K Pymont | MW/516 |
| 24/05/2010 10:53 | 320.7 | 7.8 | 158 | 6.79 | 19.6 | E23982K Pymont | MW/516 |
| 24/05/2010 10:53 | 278.3 | 7.6 | 152 | 6.69 | 19.2 | E23982K Pymont | MW/516 |
| 24/05/2010 10:53 | 278.2 | 7.2 | 152 | 6.66 | 19.2 | E23982K Pymont | MW/516 |
| 24/05/2010 10:54 | 279.3 | 7 | 152.4 | 6.64 | 19.2 | E23982K Pymont | MW/516 |

| Timestamp | Conductivity (uS/cm) | DO (mg/L) | ORP_1 (mV) | pH_1 (Units) | Temp (C) | Site | Folder |
|------------------|----------------------|-----------|------------|--------------|----------|----------------|--------|
| 24/05/2010 11:12 | 1229 | 0.6 | 153.5 | 6.93 | 24.2 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:13 | 1228 | 1.6 | 154.3 | 6.92 | 24.2 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:13 | 1226 | 1.9 | 155 | 6.93 | 24.2 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:13 | 1219 | 2.5 | 156 | 6.91 | 24.2 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:14 | 1219 | 3.1 | 157.1 | 6.89 | 24.3 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:14 | 800 | 4.9 | 157.5 | 6.92 | 24.3 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:14 | 1220 | 3.8 | 157.6 | 6.87 | 24.3 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:15 | 1221 | 4.1 | 157.7 | 6.86 | 24.3 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:15 | 1223 | 4.5 | 157.6 | 6.85 | 24.3 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:15 | 1222 | 4.4 | 157.6 | 6.85 | 24.3 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:16 | 1226 | 4.2 | 157.6 | 6.84 | 24.3 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:16 | 1226 | 4.2 | 157.4 | 6.84 | 24.3 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:16 | 1227 | 4.2 | 157.1 | 6.83 | 24.3 | E23982K Pyrmon | MW517 |
| 24/05/2010 11:17 | 1227 | 4.2 | 156.7 | 6.83 | 24.3 | E23982K Pyrmon | MW517 |

Calibration

***** Calibrate: DO

Date 28/05/10 DD/MM/YY
Time 09:13:53 24-hour
User ID: BP

Method DO Air Calibrate
Cal Value: 100.000000 %
Sensor Value: 3.407141 uA
Sensor Type Polarographic
Membrane Type 1.25 PE Yellow
Salinity Mode 3.407141 Auto
Temperature 15.900000 %C2%B0C
Barometer 765.200012 mmHg
Calibrate Status Calibrated

***** Calibrate: pH

Date 28/05/10 DD/MM/YY
Time 09:11:48 24-hour
User ID: BP

Buffer Value 7.041770 pH
Sensor Value: -2.500000 pH mV
Temperature 15.550013 %C2%B0C

Buffer Value 4.000711 pH
Sensor Value: 168.199997 pH mV
Temperature 16.350000 %C2%B0C

Slope 57.811130 mV/pH
Slope 97.023282 % of Ideal pH value
Calibrate Status Calibrated

***** Calibrate: ORP

Date 28/05/10 DD/MM/YY
Time 09:09:04 24-hour
User ID: BP

Cal Solution Value: 243.699997 ORP mV
Sensor Value: 240.100006 ORP mV
Temperature 16.000000 %C2%B0C
Calibrate Status Calibrated

***** Calibrate: Conductivity

Date 28/05/10 DD/MM/YY
Time 09:01:17 24-hour
User ID: BP

Method Sp. Conductance
Cal Value: 1354.000000 SPC-uS/cm
Sensor Value: 1354.000000 SPC-uS/cm
Temperature Ref. 25.000000 %C2%B0C
Temperature Comp. 1.910000 %/C
TDS Constant 0.650000
Temperature 15.700000 %C2%B0C
Cal Cell Constant: 4.786805
Calibrate Status Calibrated

[illegible]

| Timestamp | Conductivity (uS/cm) | DO (mg/L) | ORP_1 (mV) | pH_1 (Units) | Temp (C) | Site | Folder |
|------------------|----------------------|-----------|------------|--------------|----------|-----------------|--------|
| 28/05/2010 12:52 | 2.2 | 7.9 | 158.3 | 7.75 | 21 | E23982K Pyrmont | MW508 |
| 28/05/2010 12:53 | 482.5 | 5.2 | 157.8 | 7.37 | 22.1 | E23982K Pyrmont | MW508 |
| 28/05/2010 12:54 | 1016 | 2.1 | 156.7 | 7.1 | 22.3 | E23982K Pyrmont | MW508 |
| 28/05/2010 12:55 | 1040 | 0.9 | 155.4 | 7.07 | 22.7 | E23982K Pyrmont | MW508 |
| 28/05/2010 12:56 | 989 | 0.8 | 154 | 7.23 | 22.9 | E23982K Pyrmont | MW508 |
| 28/05/2010 12:57 | 964 | 0.8 | 152.9 | 7.32 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 12:58 | 968 | 0.7 | 151.1 | 7.29 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 12:59 | 988 | 0.7 | 150.6 | 7.23 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:00 | 1007 | 0.6 | 150.6 | 7.15 | 23.1 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:01 | 1028 | 0.5 | 149.9 | 7.09 | 23.1 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:02 | 1059 | 0.5 | 147.9 | 7.03 | 23.1 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:03 | 1094 | 0.4 | 145.4 | 6.97 | 23.1 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:04 | 1126 | 0.4 | 143.2 | 6.94 | 23.1 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:05 | 1150 | 0.4 | 141.2 | 6.91 | 23.1 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:06 | 1166 | 0.4 | 139.4 | 6.88 | 23.1 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:07 | 1176 | 0.4 | 137.8 | 6.87 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:08 | 1181 | 0.4 | 136.4 | 6.85 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:09 | 1185 | 0.4 | 135.1 | 6.83 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:10 | 1188 | 0.4 | 133.9 | 6.83 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:11 | 1187 | 0.3 | 132.8 | 6.82 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:12 | 1186 | 0.3 | 131.9 | 6.81 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:13 | 1185 | 0.3 | 131.4 | 6.8 | 23 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:14 | 1181 | 0.3 | 130.8 | 6.8 | 22.9 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:15 | 1178 | 0.3 | 130.3 | 6.79 | 22.9 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:16 | 1176 | 0.3 | 129.8 | 6.78 | 22.9 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:17 | 1175 | 0.3 | 129.6 | 6.77 | 22.9 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:18 | 1175 | 0.3 | 129.4 | 6.76 | 22.9 | E23982K Pyrmont | MW508 |
| 28/05/2010 13:19 | 1175 | 0.3 | 129.1 | 6.75 | 22.9 | E23982K Pyrmont | MW508 |

| | | | | | | | | |
|---|-----|---|---------|-----------|------|------------|---------|--------|
| Client: Sydney Fish Markets Pty Ltd | | Job No.: E23982K | | | | | | |
| Project: Proposed Redevelopment | | Well No.: MW512 | | | | | | |
| Location: Sydney Fish Markets, Pyrmont | | Depth (m): | | | | | | |
| WELL FINISH | | | | | | | | |
| ☒ Gatic Cover | | ☐ Standpipe | | | | | | |
| ☐ Standpipe | | ☐ PVC Pipe | | | | | | |
| WELL PURGE DETAILS: | | | | | | | | |
| Method: Micro-purge | | SWL - Before: 3.30 | | | | | | |
| Date: 28-05-10 | | Time - Before: 11:43 am | | | | | | |
| Undertaken By: BP | | Total Vol Removed: ~11L | | | | | | |
| Pump Program No. 4 CPM | | PID (ppm): | | | | | | |
| PURGING / SAMPLING MEASUREMENTS | | | | | | | | |
| Time (min) | CMP | Vol (L) | SWL (m) | Temp (°C) | pH | EC (µS/cm) | Eh (mV) | DO ppm |
| 11:50 | 3 | | 3.87 | | | | | |
| 11:52 | | | 3.0 | | | | | |
| 11:54 | | | 3.10 | | | | | |
| 11:56 | 2 | | 3.10 | 19.4 | 7.08 | 793 | 156.8 | 0.7 |
| 11:58 | | | 3.07 | | | | | 0 |
| 12:00 | 3 | | 3.16 | | | | | |
| 12:04 | 4 | | 3.26 | 19.4 | 7.04 | 801 | 152.7 | 0.5 |
| 12:06 | | | 3.38 | | | | | |
| 12:09 | | | 3.46 | | | | | |
| 12:12 | | | 3.54 | 19.4 | 7.05 | 805 | 147.2 | 0.6 |
| 12:15 | | | 3.58 | 19.4 | 7.06 | 807 | 143.2 | 0.6 |
| 12:20 | | | 3.58 | 19.4 | 7.05 | 795 | 139.6 | 0.3 |
| Sampled at 12:22pm. | | | | | | | | |
| Containers Used/Comments | | | | | | | | |
| Water was quite silty. | | | | | | | | |
| Tested By: BP | | Remarks: | | | | | | |
| Date Tested: 28/5/10 | | - All measurements are corrected to ground level | | | | | | |
| Checked By: BP | | - SWL is an abbreviation for standing water level | | | | | | |
| Date: 28/5/10 | | - Steady state conditions - difference in the pH less than 0.2 units and difference in conductivity less than 10% | | | | | | |

| Timestamp | Conductivity (uS/cm) | DO (mg/L) | ORP_1 (mV) | pH_1 (Units) | Temp (C) | Site | Folder |
|------------------|----------------------|-----------|------------|--------------|----------|-----------------|--------|
| 28/05/2010 11:49 | 0.7 | 8.4 | 610.9 | 7.37 | 19.6 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:50 | 0.7 | 8.7 | 576.6 | 7.37 | 19.2 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:51 | 789 | 5.6 | 160.3 | 7.26 | 19.3 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:52 | 792 | 4.5 | 157.8 | 7.15 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:53 | 793 | 3.2 | 157.5 | 7.12 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:54 | 794 | 1.6 | 157.2 | 7.09 | 19.5 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:55 | 793 | 0.8 | 156.9 | 7.08 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:56 | 793 | 0.6 | 156.8 | 7.08 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:57 | 793 | 0.6 | 156.6 | 7.08 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:58 | 793 | 0.5 | 156.6 | 7.06 | 19.3 | E23982K Pyrmont | MW512 |
| 28/05/2010 11:59 | 794 | 0.5 | 156.2 | 7.05 | 19.3 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:00 | 795 | 0.5 | 155.7 | 7.05 | 19.3 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:01 | 796 | 0.4 | 155.3 | 7.04 | 19.3 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:02 | 795 | 0.4 | 155.3 | 7.04 | 19.3 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:03 | 799 | 0.4 | 153.7 | 7.01 | 19.3 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:04 | 801 | 0.5 | 152.8 | 7.04 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:05 | 803 | 0.5 | 152.4 | 7.05 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:06 | 803 | 0.6 | 151.9 | 7.06 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:07 | 804 | 0.6 | 151.5 | 7.06 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:08 | 805 | 0.6 | 150.8 | 7.05 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:09 | 805 | 0.6 | 149.9 | 7.05 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:10 | 805 | 0.6 | 148.7 | 7.05 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:11 | 805 | 0.6 | 147.7 | 7.05 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:12 | 806 | 0.6 | 146.5 | 7.05 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:13 | 807 | 0.6 | 145.2 | 7.06 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:14 | 807 | 0.6 | 143.8 | 7.06 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:15 | 807 | 0.5 | 142.3 | 7.06 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:16 | 807 | 0.5 | 140.8 | 7.06 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:17 | 805 | 0.5 | 139.2 | 7.06 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:18 | 447.2 | 0.5 | 136.2 | 7.1 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:19 | 795 | 0.4 | 135.9 | 7.05 | 19.4 | E23982K Pyrmont | MW512 |
| 28/05/2010 12:20 | 794 | 0.3 | 134.1 | 7.06 | 19.4 | E23982K Pyrmont | MW512 |

[illegible]

| Timestamp | Conductivity (uS/cm) | DO (mg/L) | ORP_1 (mV) | pH_1 (Units) | Temp (C) | Site | Folder |
|-----------------|----------------------|-----------|------------|--------------|----------|----------------|--------|
| 28/05/2010 9:40 | 18.7 | 9.5 | 261 | 4.72 | 15.1 | E23982K Pymont | MW513 |
| 28/05/2010 9:41 | 747 | 5.2 | 140.1 | 6.21 | 20.9 | E23982K Pymont | MW513 |
| 28/05/2010 9:42 | 757 | 3.3 | 104.3 | 6.46 | 22 | E23982K Pymont | MW513 |
| 28/05/2010 9:43 | 762 | 1.8 | 86 | 6.53 | 22.5 | E23982K Pymont | MW513 |
| 28/05/2010 9:44 | 763 | 0.8 | 73 | 6.57 | 22.5 | E23982K Pymont | MW513 |
| 28/05/2010 9:45 | 761 | 0.5 | 63.4 | 6.59 | 22.4 | E23982K Pymont | MW513 |
| 28/05/2010 9:46 | 756 | 0.4 | 57.3 | 6.6 | 22.3 | E23982K Pymont | MW513 |
| 28/05/2010 9:47 | 753 | 0.3 | 52.8 | 6.59 | 22.2 | E23982K Pymont | MW513 |
| 28/05/2010 9:48 | 750 | 0.3 | 50.1 | 6.59 | 22.2 | E23982K Pymont | MW513 |
| 28/05/2010 9:49 | 749 | 0.3 | 46.9 | 6.62 | 22.2 | E23982K Pymont | MW513 |
| 28/05/2010 9:50 | 748 | 0.3 | 45.8 | 6.62 | 22.2 | E23982K Pymont | MW513 |
| 28/05/2010 9:51 | 747 | 0.2 | 45.4 | 6.63 | 22.2 | E23982K Pymont | MW513 |
| 28/05/2010 9:52 | 746 | 0.2 | 45.2 | 6.63 | 22.2 | E23982K Pymont | MW513 |
| 28/05/2010 9:53 | 745 | 0.2 | 45.2 | 6.63 | 22.1 | E23982K Pymont | MW513 |
| 28/05/2010 9:54 | 744 | 0.2 | 45.1 | 6.63 | 22.1 | E23982K Pymont | MW513 |
| 28/05/2010 9:55 | 743 | 0.2 | 44.9 | 6.63 | 22.1 | E23982K Pymont | MW513 |
| 28/05/2010 9:56 | 743 | 0.2 | 44.8 | 6.63 | 22.1 | E23982K Pymont | MW513 |
| 28/05/2010 9:57 | 742 | 0.2 | 44.5 | 6.63 | 22.1 | E23982K Pymont | MW513 |

[illegible]

[illegible]

| Timestamp | Conductivity (uS/cm) | DO (mg/L) | ORP_1 (mV) | pH_1 (Units) | Temp (C) | Site | Folder |
|------------------|----------------------|-----------|------------|--------------|----------|----------------|--------|
| 28/05/2010 10:34 | 2.3 | 8.5 | 157.1 | 7.41 | 19.4 | E23982K Pymont | MW517 |
| 28/05/2010 10:35 | 31.9 | 7 | 199 | 7.31 | 22.6 | E23982K Pymont | MW517 |
| 28/05/2010 10:36 | 1229 | 2.8 | 131.1 | 7.09 | 23.4 | E23982K Pymont | MW517 |
| 28/05/2010 10:37 | 1240 | 0.8 | 120.7 | 7.1 | 23.8 | E23982K Pymont | MW517 |
| 28/05/2010 10:38 | 1245 | 0.6 | 113.8 | 7.1 | 23.9 | E23982K Pymont | MW517 |
| 28/05/2010 10:39 | 1248 | 0.4 | 108.5 | 7.1 | 24 | E23982K Pymont | MW517 |
| 28/05/2010 10:40 | 1251 | 0.2 | 104.7 | 7.1 | 24 | E23982K Pymont | MW517 |
| 28/05/2010 10:41 | 1252 | 0.2 | 101.4 | 7.1 | 24 | E23982K Pymont | MW517 |
| 28/05/2010 10:42 | 1254 | 0.2 | 98.9 | 7.09 | 24 | E23982K Pymont | MW517 |
| 28/05/2010 10:43 | 1255 | 0.2 | 96.5 | 7.08 | 24 | E23982K Pymont | MW517 |
| 28/05/2010 10:44 | 1255 | 0.2 | 94.6 | 7.08 | 24 | E23982K Pymont | MW517 |
| 28/05/2010 10:45 | 1256 | 0.2 | 92.6 | 7.08 | 24 | E23982K Pymont | MW517 |
| 28/05/2010 10:46 | 1256 | 0.2 | 91.1 | 7.08 | 24 | E23982K Pymont | MW517 |
| 28/05/2010 10:47 | 1256 | 0.2 | 89.5 | 7.08 | 24 | E23982K Pymont | MW517 |



PID FIELD CALIBRATION CERTIFICATE

| | | | |
|-------------------------------|-------------|--|--|
| Make: MiniRAE | Model: 2000 | Unit: ① | Date of last factory calibration: 9/2/2010 |
| Date of calibration: 11/5/10 | | Name of Calibrator: | |
| Calibration gas: Iso-butylene | | Calibration Gas Concentration: 100.0 ppm | |
| Measured reading: 100 ppm | | Error in measured reading: $\pm$ 0 ppm | |
| Make: MiniRAE | Model: 2000 | Unit: ① | Date of last factory calibration: 9/2/2010 |
| Date of calibration: 13/5/10 | | Name of Calibrator: BP | |
| Calibration gas: Iso-butylene | | Calibration Gas Concentration: 100.0 ppm | |
| Measured reading: 100 ppm | | Error in measured reading: $\pm$ 0 ppm | |
| Make: MiniRAE | Model: 2000 | Unit: ① | Date of last factory calibration: 9/2/2010 |
| Date of calibration: 14/5/10 | | Name of Calibrator: BP | |
| Calibration gas: Iso-butylene | | Calibration Gas Concentration: 100.0 ppm | |
| Measured reading: 100 ppm | | Error in measured reading: $\pm$ 0 ppm | |
| Make: MiniRAE | Model: 2000 | Unit: ① | Date of last factory calibration: 9/2/10 |
| Date of calibration: 17/5/10 | | Name of Calibrator: BP | |
| Calibration gas: Iso-butylene | | Calibration Gas Concentration: 100.0 ppm | |
| Measured reading: 100 ppm | | Error in measured reading: $\pm$ 0 ppm | |
| Make: MiniRAE | Model: 2000 | Unit: ① | Date of last factory calibration: 9/2/10 |
| Date of calibration: 19/5/10 | | Name of Calibrator: | |
| Calibration gas: Iso-butylene | | Calibration Gas Concentration: 100.0 ppm | |
| Measured reading: 100 ppm | | Error in measured reading: $\pm$ 0 ppm | |
| Make: MiniRAE | Model: 2000 | Unit: ① | Date of last factory calibration: 9/2/10 |
| Date of calibration: 20/5/10 | | Name of Calibrator: | |
| Calibration gas: Iso-butylene | | Calibration Gas Concentration: 100.0 ppm | |
| Measured reading: 100 ppm | | Error in measured reading: $\pm$ 0 ppm | |
| Make: MiniRAE | Model: 2000 | Unit: ① | Date of last factory calibration: 9/2/10 |
| Date of calibration: 21/5/10 | | Name of Calibrator: BP | |
| Calibration gas: Iso-butylene | | Calibration Gas Concentration: 100.0 ppm | |
| Measured reading: 100 ppm | | Error in measured reading: $\pm$ 0 ppm | |



APPENDIX F

(Hardness Calculation and UCL Calculation)

ADJUSTING THE TRIGGER VALUE TO TAKE ACCOUNT OF HARDNESS

Reference: Australian and New Zealand Guidelines for Fresh and Marine Water Quality ANZECC 2000
Chapter 3 p3.4-21
Table 3.4.3

Conductivity measurements are temperature dependent. The degree to which temp affects conductivity varies from solution to solution. The conductivity of a solution increases with temperature. For salt solutions this is typically 2.2 to 3%/degree Centigrade, for fresh water it is typically 2%/degree centigrade.
www.emersonprocess.com/rainhome/.../Liq_AppData_43-018.pdf

<http://www.fivecreeks.org/monitor/sal.html>

This website includes a conversion calculator for salinity to conductivity that also includes a temperature compensation factor
Results are in ppt (1ppt equals 1000mg/L) - <http://www.aquatext.com/tables/concconv.htm>
This formula is valid for salt concentrations ranging from 2ppt to 42 ppt (ie 2000mg/L to 42000mg/L).
Recommend this one as it is easy, has temp adjustment and appears to give reasonable results.

Different salts have different abilities to conduct electricity most conversion factors appear to assume that the majority of salt in a sample is sodium chloride (a reasonable assumption).

http://www.sa.waterwatch.org.au/sw_salinity.htm

The above website cites a conversion factor of 0.56 (ie multiply EC value uS/cm by 0.56)

Conversion factors seem to range from 0.52 to 0.56

The calculation allows you you to adjust the trigger value for some of the heavy metals

The calculation only applies to fresh waters with a salinity of 2500mg/L or less.

At 25°C a salinity value of 2500mg/L approximates to a conductivity reading of 4750µS/cm. (assumes a conversion factor 0.52)

CALCULATION:

Calculate the average hardness (H) value (mg/L as CaCO₃) for the site and enter here

260

The original 95% trigger values (TV) and the hardness modified trigger values (HMTV) are shown in the Table below in µg/L

| Metal | TV | Hardness algorithm | HMTV |
|--------------|-----|--------------------------|-------|
| Cadmium | 5.5 | $HMTV = TV(H/30)^{0.89}$ | 37.6 |
| Chromium III | 10 | $HMTV = TV(H/30)^{0.82}$ | 58.8 |
| Copper | 1.3 | $HMTV = TV(H/30)^{0.85}$ | 8.1 |
| Lead | 4.4 | $HMTV = TV(H/30)^{1.27}$ | 68.3 |
| Nickel | 70 | $HMTV = TV(H/30)^{0.85}$ | 438.8 |
| Zinc | 15 | $HMTV = TV(H/30)^{0.85}$ | 94.0 |

General Statistics

| | | | |
|----------------------------------|----------|---|----------|
| Data File | | Variable: Arsenic | |
| Raw Statistics | | Normal Distribution Test | |
| Number of Valid Samples | 34 | Shapiro-Wilk Test Statistic | 0.187804 |
| Number of Unique Samples | 9 | Shapiro-Wilk 5% Critical Value | 0.933 |
| Minimum | 2 | Data not normal at 5% significance level | |
| Maximum | 1300 | 95% UCL (Assuming Normal Distribution) | |
| Mean | 43.41176 | Student's-t UCL | |
| Median | 4.5 | 107.8675 | |
| Standard Deviation | 222.0793 | Gamma Distribution Test | |
| Variance | 49319.22 | A-D Test Statistic | |
| Coefficient of Variation | 5.115648 | 8.70163 | |
| Skewness | 5.827142 | A-D 5% Critical Value | |
| Gamma Statistics | | 0.852892 | |
| k hat | 0.31367 | K-S Test Statistic | |
| k star (bias corrected) | 0.305601 | 0.4459 | |
| Theta hat | 138.3995 | K-S 5% Critical Value | |
| Theta star | 142.0537 | 0.163491 | |
| nu hat | 21.32956 | Data do not follow gamma distribution | |
| nu star | 20.78088 | at 5% significance level | |
| Approx.Chi Square Value (.05) | 11.42726 | 95% UCLs (Assuming Gamma Distribution) | |
| Adjusted Level of Significance | 0.0422 | Approximate Gamma UCL | |
| Adjusted Chi Square Value | 11.08368 | 78.9458 | |
| Log-transformed Statistics | | Adjusted Gamma UCL | |
| Minimum of log data | 0.693147 | 81.39307 | |
| Maximum of log data | 7.17012 | Lognormal Distribution Test | |
| Mean of log data | 1.588284 | Shapiro-Wilk Test Statistic | |
| Standard Deviation of log data | 1.200659 | 0.668948 | |
| Variance of log data | 1.441581 | Shapiro-Wilk 5% Critical Value | |
| | | 0.933 | |
| | | Data not lognormal at 5% significance level | |
| | | 95% UCLs (Assuming Lognormal Distribution) | |
| | | 95% H-UCL | |
| | | 17.5102 | |
| | | 95% Chebyshev (MVUE) UCL | |
| | | 20.26036 | |
| | | 97.5% Chebyshev (MVUE) UCL | |
| | | 24.81964 | |
| | | 99% Chebyshev (MVUE) UCL | |
| | | 33.77547 | |
| | | 95% Non-parametric UCLs | |
| | | CLT UCL | |
| | | 106.0581 | |
| | | Adj-CLT UCL (Adjusted for skewness) | |
| | | 146.7273 | |
| | | Mod-t UCL (Adjusted for skewness) | |
| | | 114.211 | |
| | | Jackknife UCL | |
| | | 107.8675 | |
| | | Standard Bootstrap UCL | |
| | | 103.7186 | |
| | | Bootstrap-t UCL | |
| | | 3107.027 | |
| RECOMMENDATION | | Hall's Bootstrap UCL | |
| Data are Non-parametric (0.05) | | 1231.249 | |
| | | Percentile Bootstrap UCL | |
| | | 119.4412 | |
| | | BCA Bootstrap UCL | |
| | | 195.5 | |
| Use 99% Chebyshev (Mean, Sd) UCL | | 95% Chebyshev (Mean, Sd) UCL | |
| | | 209.426 | |
| | | 97.5% Chebyshev (Mean, Sd) UCL | |
| | | 281.2606 | |
| | | 99% Chebyshev (Mean, Sd) UCL | |
| | | 422.3655 | |

General Statistics

| | | | | | | |
|----------------------------------|-----------|---|--------------------------|-----------|------------|--|
| Data File | | | | Variable: | Total PAHs | |
| Raw Statistics | | | Normal Distribution Test | | | |
| Number of Valid Samples | 34 | Shapiro-Wilk Test Statistic | | | 0.431068 | |
| Number of Unique Samples | 25 | Shapiro-Wilk 5% Critical Value | | | 0.933 | |
| Minimum | 0.775 | Data not normal at 5% significance level | | | | |
| Maximum | 149.7 | | | | | |
| Mean | 11.52926 | 95% UCL (Assuming Normal Distribution) | | | | |
| Median | 2.835 | Student's-t UCL | | | 19.29067 | |
| Standard Deviation | 26.74159 | | | | | |
| Variance | 715.1128 | Gamma Distribution Test | | | | |
| Coefficient of Variation | 2.319454 | A-D Test Statistic | | | 2.085066 | |
| Skewness | 4.559179 | A-D 5% Critical Value | | | 0.808612 | |
| | | K-S Test Statistic | | | 0.18939 | |
| Gamma Statistics | | K-S 5% Critical Value | | | 0.159214 | |
| k hat | 0.531464 | Data do not follow gamma distribution | | | | |
| k star (bias corrected) | 0.504178 | at 5% significance level | | | | |
| Theta hat | 21.69342 | | | | | |
| Theta star | 22.86747 | 95% UCLs (Assuming Gamma Distribution) | | | | |
| nu hat | 36.13952 | Approximate Gamma UCL | | | 18.05763 | |
| nu star | 34.28408 | Adjusted Gamma UCL | | | 18.4717 | |
| Approx.Chi Square Value (.05) | 21.88937 | | | | | |
| Adjusted Level of Significance | 0.0422 | Lognormal Distribution Test | | | | |
| Adjusted Chi Square Value | 21.39869 | Shapiro-Wilk Test Statistic | | | 0.888435 | |
| | | Shapiro-Wilk 5% Critical Value | | | 0.933 | |
| Log-transformed Statistics | | Data not lognormal at 5% significance level | | | | |
| Minimum of log data | -0.254892 | | | | | |
| Maximum of log data | 5.008633 | 95% UCLs (Assuming Lognormal Distribution) | | | | |
| Mean of log data | 1.260912 | 95% H-UCL | | | 21.80998 | |
| Standard Deviation of log data | 1.457909 | 95% Chebyshev (MVUE) UCL | | | 22.94173 | |
| Variance of log data | 2.125499 | 97.5% Chebyshev (MVUE) UCL | | | 28.70515 | |
| | | 99% Chebyshev (MVUE) UCL | | | 40.02626 | |
| | | 95% Non-parametric UCLs | | | | |
| | | CLT UCL | | | 19.0728 | |
| | | Adj-CLT UCL (Adjusted for skewness) | | | 22.90436 | |
| | | Mod-t UCL (Adjusted for skewness) | | | 19.88832 | |
| | | Jackknife UCL | | | 19.29067 | |
| | | Standard Bootstrap UCL | | | 18.97646 | |
| | | Bootstrap-t UCL | | | 36.69872 | |
| RECOMMENDATION | | Hall's Bootstrap UCL | | | 48.59168 | |
| Data are Non-parametric (0.05) | | Percentile Bootstrap UCL | | | 19.74029 | |
| | | BCA Bootstrap UCL | | | 24.72265 | |
| Use 99% Chebyshev (Mean, Sd) UCL | | 95% Chebyshev (Mean, Sd) UCL | | | 31.51981 | |
| | | 97.5% Chebyshev (Mean, Sd) UCL | | | 40.16973 | |
| | | 99% Chebyshev (Mean, Sd) UCL | | | 57.16084 | |

General Statistics

| | | | | | | |
|----------------------------------|-----------|---|--------------------------|-----------------|----------|--|
| Data File | | | | Variable: B(a)P | | |
| Raw Statistics | | | Normal Distribution Test | | | |
| Number of Valid Samples | 34 | Shapiro-Wilk Test Statistic | | | 0.377479 | |
| Number of Unique Samples | 20 | Shapiro-Wilk 5% Critical Value | | | 0.933 | |
| Minimum | 0.025 | Data not normal at 5% significance level | | | | |
| Maximum | 19 | | | | | |
| Mean | 1.198912 | 95% UCL (Assuming Normal Distribution) | | | | |
| Median | 0.15 | Student's-t UCL | | | 2.168069 | |
| Standard Deviation | 3.339189 | | | | | |
| Variance | 11.15018 | Gamma Distribution Test | | | | |
| Coefficient of Variation | 2.785183 | A-D Test Statistic | | | 2.12732 | |
| Skewness | 4.93444 | A-D 5% Critical Value | | | 0.840346 | |
| | | K-S Test Statistic | | | 0.193781 | |
| Gamma Statistics | | K-S 5% Critical Value | | | 0.162292 | |
| k hat | 0.370314 | Data do not follow gamma distribution | | | | |
| k star (bias corrected) | 0.357247 | at 5% significance level | | | | |
| Theta hat | 3.237552 | | | | | |
| Theta star | 3.355971 | 95% UCLs (Assuming Gamma Distribution) | | | | |
| nu hat | 25.18137 | Approximate Gamma UCL | | | 2.070029 | |
| nu star | 24.29282 | Adjusted Gamma UCL | | | 2.128342 | |
| Approx.Chi Square Value (.05) | 14.06983 | | | | | |
| Adjusted Level of Significance | 0.0422 | Lognormal Distribution Test | | | | |
| Adjusted Chi Square Value | 13.68434 | Shapiro-Wilk Test Statistic | | | 0.890394 | |
| | | Shapiro-Wilk 5% Critical Value | | | 0.933 | |
| Log-transformed Statistics | | Data not lognormal at 5% significance level | | | | |
| Minimum of log data | -3.688879 | | | | | |
| Maximum of log data | 2.944439 | 95% UCLs (Assuming Lognormal Distribution) | | | | |
| Mean of log data | -1.617858 | 95% H-UCL | | | 4.147896 | |
| Standard Deviation of log data | 1.912495 | 95% Chebyshev (MVUE) UCL | | | 3.181691 | |
| Variance of log data | 3.657637 | 97.5% Chebyshev (MVUE) UCL | | | 4.091074 | |
| | | 99% Chebyshev (MVUE) UCL | | | 5.87738 | |
| | | 95% Non-parametric UCLs | | | | |
| | | CLT UCL | | | 2.140864 | |
| | | Adj-CLT UCL (Adjusted for skewness) | | | 2.658685 | |
| | | Mod-t UCL (Adjusted for skewness) | | | 2.248839 | |
| | | Jackknife UCL | | | 2.168069 | |
| | | Standard Bootstrap UCL | | | 2.083948 | |
| | | Bootstrap-t UCL | | | 5.008511 | |
| RECOMMENDATION | | Hall's Bootstrap UCL | | | 5.740593 | |
| Data are Non-parametric (0.05) | | Percentile Bootstrap UCL | | | 2.235882 | |
| | | BCA Bootstrap UCL | | | 2.956559 | |
| Use 99% Chebyshev (Mean, Sd) UCL | | 95% Chebyshev (Mean, Sd) UCL | | | 3.695106 | |
| | | 97.5% Chebyshev (Mean, Sd) UCL | | | 4.775211 | |
| | | 99% Chebyshev (Mean, Sd) UCL | | | 6.896868 | |

General Statistics

| | | | |
|----------------------------------|----------|--|-----------|
| Data File | | Variable: | C6-C9 TPH |
| Raw Statistics | | Normal Distribution Test | |
| Number of Valid Samples | 35 | Shapiro-Wilk Test Statistic | 0.354376 |
| Number of Unique Samples | 5 | Shapiro-Wilk 5% Critical Value | 0.934 |
| Minimum | 12.5 | Data not normal at 5% significance level | |
| Maximum | 480 | 95% UCL (Assuming Normal Distribution) | |
| Mean | 48.84286 | Student's-t UCL | 81.98209 |
| Median | 12.5 | Gamma Distribution Test | |
| Standard Deviation | 115.9451 | A-D Test Statistic | 11.19196 |
| Variance | 13443.26 | A-D 5% Critical Value | 0.801451 |
| Coefficient of Variation | 2.373839 | K-S Test Statistic | 0.545931 |
| Skewness | 3.223494 | K-S 5% Critical Value | 0.156002 |
| Gamma Statistics | | Data do not follow gamma distribution at 5% significance level | |
| k hat | 0.609826 | 95% UCLs (Assuming Gamma Distribution) | |
| k star (bias corrected) | 0.576603 | Approximate Gamma UCL | 73.55353 |
| Theta hat | 80.09312 | Adjusted Gamma UCL | 75.02302 |
| Theta star | 84.70799 | Lognormal Distribution Test | |
| nu hat | 42.68781 | Shapiro-Wilk Test Statistic | 0.381676 |
| nu star | 40.36219 | Shapiro-Wilk 5% Critical Value | 0.934 |
| Approx.Chi Square Value (.05) | 26.80231 | Data not lognormal at 5% significance level | |
| Adjusted Level of Significance | 0.0425 | 95% UCLs (Assuming Lognormal Distribution) | |
| Adjusted Chi Square Value | 26.27733 | 95% H-UCL | 45.99419 |
| Log-transformed Statistics | | 95% Chebyshev (MVUE) UCL | 55.19098 |
| Minimum of log data | 2.525729 | 97.5% Chebyshev (MVUE) UCL | 66.35996 |
| Maximum of log data | 6.173786 | 99% Chebyshev (MVUE) UCL | 88.29926 |
| Mean of log data | 2.877826 | 95% Non-parametric UCLs | |
| Standard Deviation of log data | 1.0241 | CLT UCL | 81.07918 |
| Variance of log data | 1.04878 | Adj-CLT UCL (Adjusted for skewness) | 92.48934 |
| | | Mod-t UCL (Adjusted for skewness) | 83.76184 |
| | | Jackknife UCL | 81.98209 |
| | | Standard Bootstrap UCL | 80.82637 |
| | | Bootstrap-t UCL | 113.0396 |
| RECOMMENDATION | | Hall's Bootstrap UCL | 76.67563 |
| Data are Non-parametric (0.05) | | Percentile Bootstrap UCL | 82.31429 |
| | | BCA Bootstrap UCL | 97.41429 |
| Use 99% Chebyshev (Mean, Sd) UCL | | 95% Chebyshev (Mean, Sd) UCL | 134.2698 |
| | | 97.5% Chebyshev (Mean, Sd) UCL | 171.2342 |
| | | 99% Chebyshev (Mean, Sd) UCL | 243.8434 |

General Statistics

| | | | |
|----------------------------------|----------|---|----------|
| Data File | | Variable: C10-C36 TPH | |
| Raw Statistics | | Normal Distribution Test | |
| Number of Valid Samples | 35 | Shapiro-Wilk Test Statistic | 0.407171 |
| Number of Unique Samples | 20 | Shapiro-Wilk 5% Critical Value | 0.934 |
| Minimum | 125 | Data not normal at 5% significance level | |
| Maximum | 15370 | | |
| Mean | 1175.457 | 95% UCL (Assuming Normal Distribution) | |
| Median | 251 | Student's-t UCL | 2002.342 |
| Standard Deviation | 2893.042 | | |
| Variance | 8369695 | Gamma Distribution Test | |
| Coefficient of Variation | 2.461206 | A-D Test Statistic | 3.898179 |
| Skewness | 4.164509 | A-D 5% Critical Value | 0.808344 |
| | | K-S Test Statistic | 0.236065 |
| Gamma Statistics | | K-S 5% Critical Value | 0.156729 |
| k hat | 0.539654 | Data do not follow gamma distribution | |
| k star (bias corrected) | 0.512445 | at 5% significance level | |
| Theta hat | 2178.17 | | |
| Theta star | 2293.82 | 95% UCLs (Assuming Gamma Distribution) | |
| nu hat | 37.77575 | Approximate Gamma UCL | 1820.38 |
| nu star | 35.87116 | Adjusted Gamma UCL | 1859.334 |
| Approx.Chi Square Value (.05) | 23.16276 | | |
| Adjusted Level of Significance | 0.0425 | Lognormal Distribution Test | |
| Adjusted Chi Square Value | 22.67749 | Shapiro-Wilk Test Statistic | 0.810484 |
| | | Shapiro-Wilk 5% Critical Value | 0.934 |
| Log-transformed Statistics | | Data not lognormal at 5% significance level | |
| Minimum of log data | 4.828314 | | |
| Maximum of log data | 9.640173 | 95% UCLs (Assuming Lognormal Distribution) | |
| Mean of log data | 5.906121 | 95% H-UCL | 1588.112 |
| Standard Deviation of log data | 1.300788 | 95% Chebyshev (MVUE) UCL | 1792.442 |
| Variance of log data | 1.692049 | 97.5% Chebyshev (MVUE) UCL | 2212.895 |
| | | 99% Chebyshev (MVUE) UCL | 3038.794 |
| | | 95% Non-parametric UCLs | |
| | | CLT UCL | 1979.813 |
| | | Adj-CLT UCL (Adjusted for skewness) | 2347.629 |
| | | Mod-t UCL (Adjusted for skewness) | 2059.714 |
| | | Jackknife UCL | 2002.342 |
| | | Standard Bootstrap UCL | 1988.911 |
| | | Bootstrap-t UCL | 4139.396 |
| RECOMMENDATION | | Hall's Bootstrap UCL | 4856.503 |
| Data are Non-parametric (0.05) | | Percentile Bootstrap UCL | 2014.571 |
| | | BCA Bootstrap UCL | 2431.629 |
| Use 99% Chebyshev (Mean, Sd) UCL | | 95% Chebyshev (Mean, Sd) UCL | 3307.017 |
| | | 97.5% Chebyshev (Mean, Sd) UCL | 4229.345 |
| | | 99% Chebyshev (Mean, Sd) UCL | 6041.079 |