

NSW Office of Water

Work Summary

GW042800
Licence: 10BL105375

Licence Status: LAPSED

Authorised Purpose(s): RECREATION (GROUNDWATER)
Intended Purpose(s): RECREATION (GROUNDWATER)

Work Type: Bore

Work Status:
Construct.Method: Cable Tool

Owner Type: Local Govt

Commenced Date:
Completion Date: 01/04/1976

Final Depth: 14.30 m
Drilled Depth: 14.30 m

Contractor Name:
Driller:
Assistant Driller:
Property: N/A NSW

Standing Water Level
(m):
GWMA: 018 - BOTANY BAY SAND BEDS
GW Zone: -

Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

County	Parish	Cadastre
Form A: CUMBE	CUMBE.001	DP6512 (8)
Licensed: CUMBERLAND	ALEXANDRIA	Whole Lot //

Region: 10 - Sydney South Coast

CMA Map: 9130-2S

River Basin: 213 - SYDNEY COAST -
 GEORGES RIVER

Grid Zone:
Scale:
Area/District:
Elevation: 0.00 m (A.H.D.)
Elevation Source: (Unknown)

Northing: 6246390.0
Easting: 339193.0

Latitude: 33°54'38.3"S
Longitude: 151°15'38.2"E

GS Map: -

MGA Zone: 0

Coordinate Source: GD.,ACC.MAP

Construction

 Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel
 Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Annulus	Waterworn/Rounded	9.10	14.20				Graded
1	1	Casing	Threaded Steel	0.00	11.20	203			
1	1	Opening	Screen	11.20	14.20	203		1	Stainless Steel

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
1.50	14.30	12.80	Unconsolidated		1.50	5.30			

Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	1.22	1.22	Made Ground	Fill	
1.22	4.88	3.66	Sand Water Supply	Sand	

4.88	5.49	0.61	Clay Grey Stiff	Clay	
5.49	8.84	3.35	Sand Grey Water Supply	Sand	
8.84	13.11	4.27	Sand Yellow Water Supply	Sand	
13.11	14.02	0.91	Sand Water Supply	Sand	
14.02	14.33	0.31	Clay Sandy	Clay	

Remarks

09/03/1987: BURNIE PARK CLOVELLY

***** End of GW042800 *****

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NSW Office of Water

Work Summary

GW108862

Licence: 10BL164833

Licence Status: CANCELLED

Authorised Purpose(s): TEST BORE
Intended Purpose(s): RECREATION (GROUNDWATER)

Work Type: Bore

Work Status: Supply Obtained

Construct.Method: Rotary Air

Owner Type: Local Govt

Commenced Date:
Completion Date: 08/05/2008

Final Depth: 186.00 m
Drilled Depth: 186.00 m

Contractor Name: Britt's Water Solutions

Driller: Darren James Britt

Assistant Driller:

Property: BURROWS PARK, CLOVELLY
OCEAN ST CLOVELLY 2031

Standing Water Level: 32.000

GWMA:
GW Zone:

Salinity:
Yield: 0.350

Site Details

Site Chosen By:

County: CUMBE
Form A: CUMBE
Licensed:

Parish: CUMBE.1

Cadastre: 7088 1060705

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown

Northing: 6246109.0
Easting: 340077.0

Latitude: 33°54'47.9"S
Longitude: 151°16'12.4"E

GS Map: -

MGA Zone: 0

Coordinate Source: Unknown

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	30.00	200			Rotary Air
1		Hole	Hole	30.00	186.00	155			Rotary Air
1	1	Casing	Pvc Class 6	-0.30	36.00	155			Driven into Hole, Riveted and Glued

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
49.00	49.30	0.30	Unknown	32.00		0.22			
150.00	150.10	0.10	Unknown	32.00		0.07			
162.00	162.05	0.05	Unknown	32.00		0.05			

Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	1.30	1.30	SANDY TOPSOIL	Invalid Code	

1.30	1.50	0.20	GREY CLAY	Grey Clay Bands	
1.50	4.00	2.50	RED SANDSTONE	Invalid Code	
4.00	82.00	78.00	WHITE SANDSTONE	Invalid Code	
82.00	98.00	16.00	BLACK SHALE	Invalid Code	
98.00	186.00	88.00	WHITE SANDSTONE	Invalid Code	

Remarks

08/05/2008: Previous Lic No:10BL164833

***** End of GW108862 *****

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NSW Office of Water

Work Summary

GW113105
Licence: 10BL602800

Licence Status: ACTIVE

Authorised Purpose(s): MONITORING BORE
Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status: Equipped

Construct.Method:
Owner Type: Private

Commenced Date:
Completion Date: 18/11/2008

Final Depth:
Drilled Depth:
Contractor Name: Macquarie Drilling

Driller: Unkown Unknown

Assistant Driller:
Property: CALTEX - COOGEE 146-148
 COOGEE BAY RD COOGEE 2034
 NSW

Standing Water Level:
GWMA:
GW Zone:
Salinity:
Yield:

Site Details

Site Chosen By:

County	Parish	Cadastre
Form A: CUMBE	CUMBE.1	1//202800

Region: 10 - Sydney South Coast

CMA Map:
River Basin: - Unknown
Area/District:
Grid Zone:
Scale:
Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown

Northing: 6245344.0
Easting: 338380.0

Latitude: 33°55'11.8"S
Longitude: 151°15'05.8"E

GS Map: -

MGA Zone: 0

Coordinate Source: Unknown

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)

Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments

Remarks

29/07/2014: Nat Carling, 29-July-2014; Added status, drill method, depth & work name, updated work type.

***** End of GW113105 *****

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NSW Office of Water

Work Summary

GW113106

Licence: 10BL602800

Licence Status: ACTIVE

Authorised Purpose(s): MONITORING BORE
Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status: Equipped

Construct.Method:

Owner Type: Private

Commenced Date:
Completion Date: 18/11/2008

Final Depth:
Drilled Depth:

Contractor Name: Macquarie Drilling

Driller: Unkown Unknown

Assistant Driller:

Property: CALTEX - COOGEE 146-148
COOGEE BAY RD COOGEE 2034
NSW

Standing Water Level:

GWMA:
GW Zone:

Salinity:
Yield:

Site Details

Site Chosen By:

County
Form A: CUMBE
Licensed:

Parish
CUMBE.1

Cadastre
1//202800

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown

Northing: 6245341.0
Easting: 338410.0

Latitude: 33°55'11.9"S
Longitude: 151°15'07.0"E

GS Map: -

MGA Zone: 0

Coordinate Source: Unknown

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)

Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments

Remarks

29/07/2014: Nat Carling, 29-July-2014; Added status, drill method, depth & work name, updated work type.

***** End of GW113106 *****

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NSW Office of Water

Work Summary

GW113107

Licence: 10BL602800

Licence Status: ACTIVE

Authorised Purpose(s): MONITORING BORE
Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status: Equipped

Construct.Method:

Owner Type: Private

Commenced Date:
Completion Date: 20/07/2009

Final Depth:
Drilled Depth:

Contractor Name: Macquarie Drilling

Driller: Unkown Unknown

Assistant Driller:

Property: CALTEX - COOGEE 146-148
 COOGEE BAY RD COOGEE 2034
 NSW

Standing Water Level:

GWMA:
GW Zone:

Salinity:
Yield:

Site Details

Site Chosen By:

County
Form A: CUMBE
Licensed:

Parish
 CUMBE.1

Cadastre
 1//202800

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown

Northing: 6245341.0
Easting: 338409.0

Latitude: 33°55'11.9"S
Longitude: 151°15'07.0"E

GS Map: -

MGA Zone: 0

Coordinate Source: Unknown

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)

Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments

Remarks

29/07/2014: Nat Carling, 29-July-2014; Added status, drill method, depth & work name, updated work type.

***** End of GW113107 *****

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NSW Office of Water

Work Summary

GW113108

Licence: 10BL602800

Licence Status: ACTIVE

Authorised Purpose(s): MONITORING BORE
Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status: Equipped

Construct.Method:

Owner Type: Private

Commenced Date:
Completion Date: 23/07/2009

Final Depth:
Drilled Depth:

Contractor Name: Macquarie Drilling

Driller: Unkown Unknown

Assistant Driller:

Property: CALTEX - COOGEE 146-148
 COOGEE BAY RD COOGEE 2034
 NSW

Standing Water Level:

GWMA:
GW Zone:

Salinity:
Yield:

Site Details

Site Chosen By:

County
Form A: CUMBE
Licensed:

Parish
 CUMBE.1

Cadastre
 1//202800

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown

Northing: 6245351.0
Easting: 338405.0

Latitude: 33°55'11.6"S
Longitude: 151°15'06.8"E

GS Map: -

MGA Zone: 0

Coordinate Source: Unknown

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)

Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments

Remarks

29/07/2014: Nat Carling, 29-July-2014; Added status, drill method, depth & work name, updated work type.

***** End of GW113108 *****

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NSW Office of Water

Work Summary

GW113109

Licence: 10BL602800

Licence Status: ACTIVE

Authorised Purpose(s): MONITORING BORE
Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status: Equipped

Construct.Method:

Owner Type: Private

Commenced Date:
Completion Date: 23/07/2009

Final Depth:
Drilled Depth:

Contractor Name: Macquarie Drilling

Driller: Unkown Unknown

Assistant Driller:

Property: CALTEX - COOGEE 146-148
 COOGEE BAY RD COOGEE 2034
 NSW

Standing Water Level:

GWMA:
GW Zone:

Salinity:
Yield:

Site Details

Site Chosen By:

County
Form A: CUMBE
Licensed:

Parish
 CUMBE.1

Cadastre
 1//202800

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown

Northing: 6245350.0
Easting: 338401.0

Latitude: 33°55'11.6"S
Longitude: 151°15'06.7"E

GS Map: -

MGA Zone: 0

Coordinate Source: Unknown

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)

Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments

Remarks

29/07/2014: Nat Carling, 29-July-2014; Added status, drill method, depth & work name, updated work type.


***** End of GW113109 *****

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Appendix D Historical Aerial Photographs



Legend:

 Approximate Site Boundary



Job No: 51707

Client: Pells Sullivan Meynink

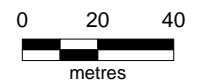
Version: Aerials

Date: 04-May-2017

Drawn By: SE

Checked By: LB

Scale 1:2,000



Coor. Sys. GDA 1994 MGA Zone 56

**UNSW Cliffbrook Campus
Coogee, NSW**

AERIAL PHOTOGRAPH 1930

AERIAL PHOTOGRAPH 1930