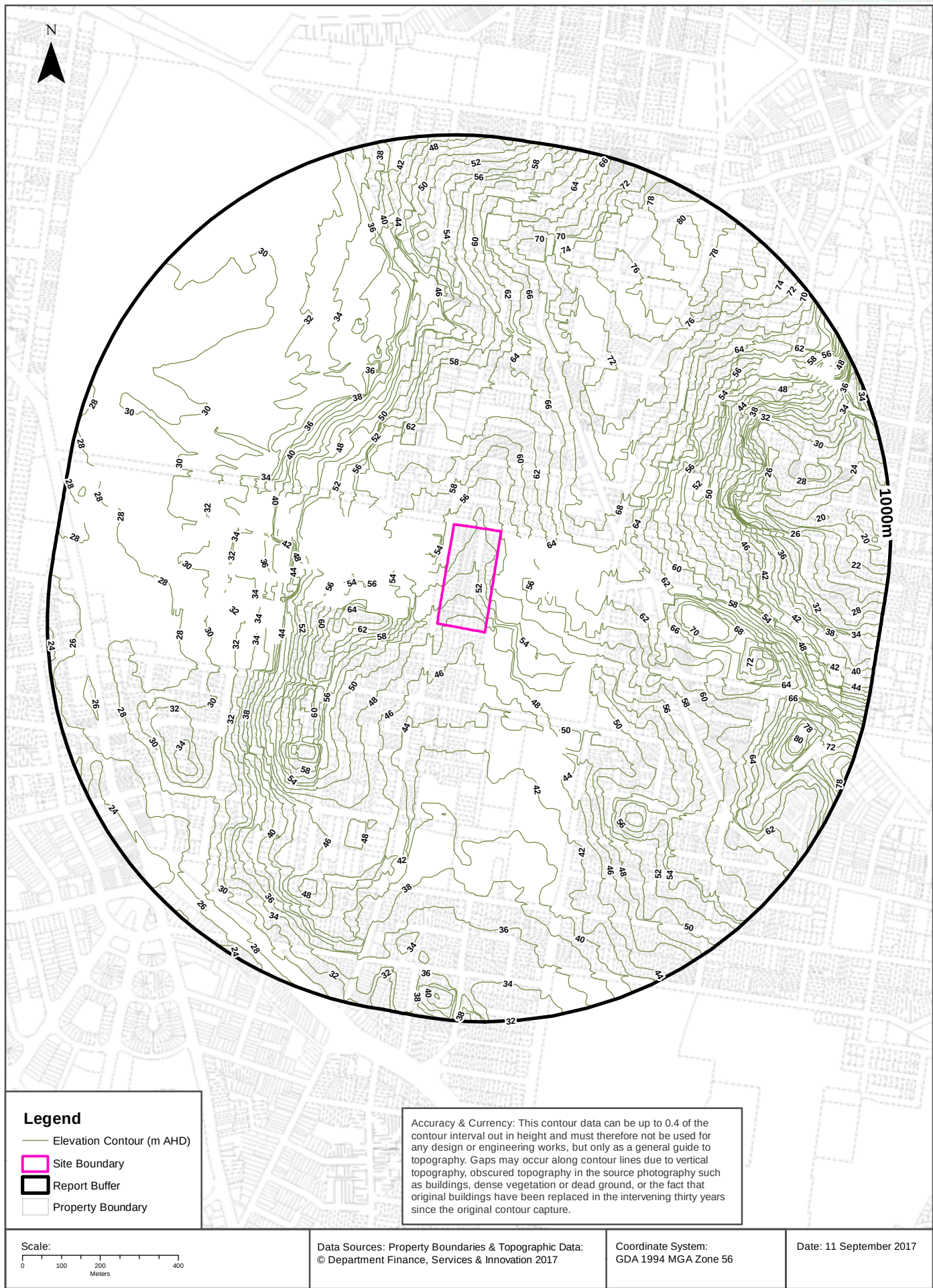
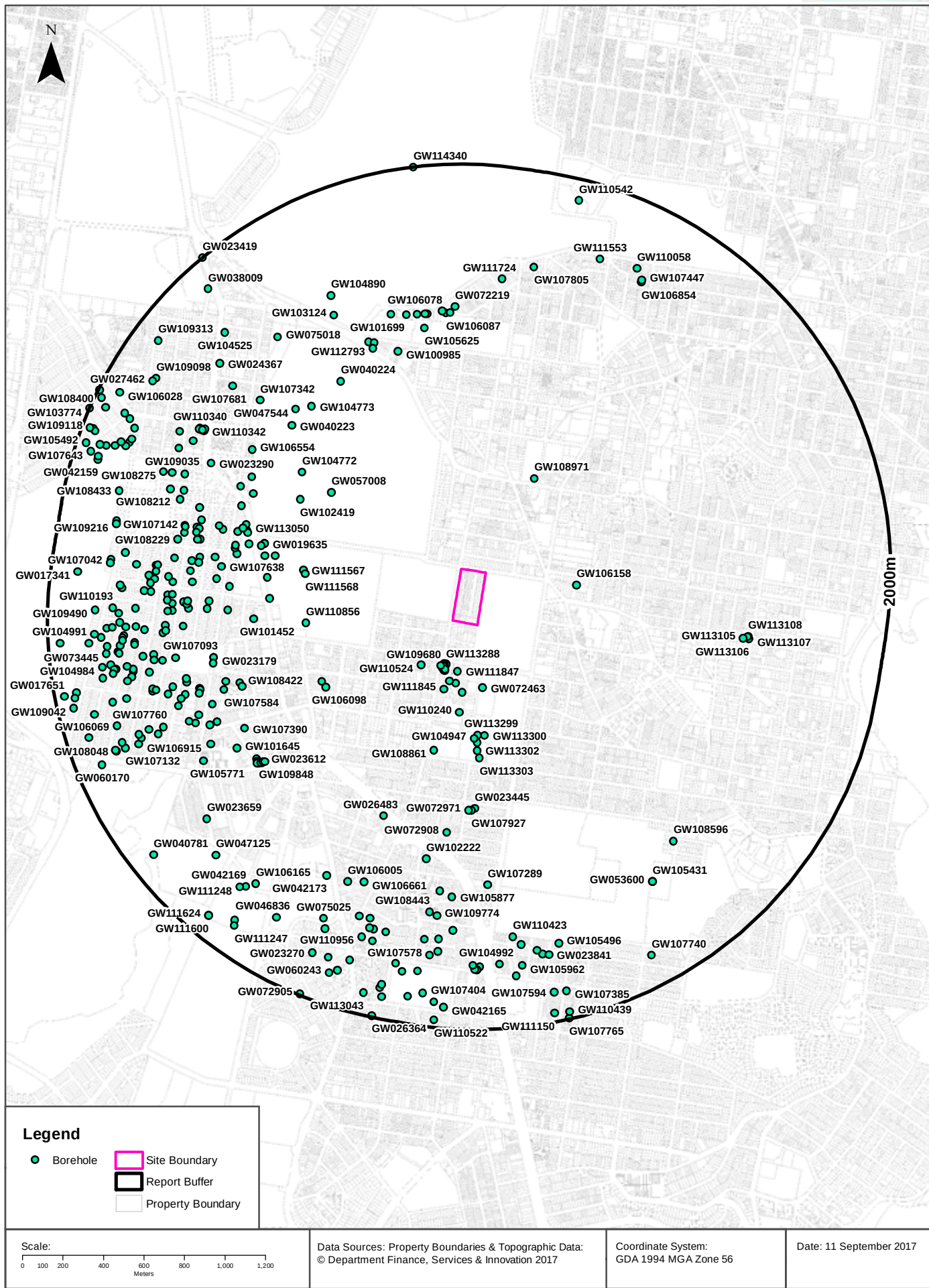


Elevation Contours (m AHD)

High Street, Randwick, NSW 2031





Hydrogeology & Groundwater

High Street, Randwick, NSW 2031

Hydrogeology

Description of aquifers on-site:

Description
Porous, extensive highly productive aquifers

Description of aquifers within the dataset buffer:

Description
Porous, extensive highly productive aquifers

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)

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Groundwater Boreholes

Boreholes within the dataset buffer:

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW113287	10BL604337	Bore	Private	Monitoring	Macquarie Drilling	01/05/2010	3.90	3.90		2.50			216m	South
GW113289	10BL604337	Bore	Private	Monitoring	Macquarie Drilling	01/05/2010	4.00	4.00					217m	South
GW109679	10BL602763, 10WA109553	Well	Private	GW Remediation	Macquarie Drilling	13/10/2008	6.00	6.00					222m	South
GW113288	10BL604337	Bore	Private	Monitoring	Macquarie Drilling	01/05/2010	4.00	4.00					224m	South
GW111554	10BL602666	Bore	Private	Monitoring	Geoprobe	03/09/2008	4.00	4.00		2.58			230m	South
GW109680	10BL602763, 10WA109553	Well	Private	GW Remediation	Macquarie Drilling	14/10/2008	5.50	5.50					232m	South
GW109681	10BL602763, 10WA109553	Well	Private	GW Remediation	Macquarie Drilling	13/10/2008	6.00	6.00					239m	South
GW112858	10BL603083	Bore	Private	Monitoring	TERRATEST	14/05/2009	3.50	3.50					243m	South
GW111847	10BL602843	Bore	Local Govt	Monitoring		11/08/2009	5.00	5.00		3.77			243m	South
GW112855	10BL603083	Bore	Private	Monitoring	TERRATEST	05/05/2009	6.50	6.50		2.23			248m	South
GW112857	10BL603083	Bore	Private	Monitoring	TERRATEST	05/05/2009	5.20	5.20					249m	South
GW112856	10BL603083	Bore	Private	Monitoring	TERRATEST	14/05/2009	5.00	5.00					249m	South
GW110524	10BL601622, 10WA109195	Bore	Private	Domestic		18/11/2009	1.50	1.50					267m	South West
GW017851	10BL008581	Bore	Private	Commercial		01/03/1958	4.50	4.60					299m	South
GW111846	10BL602843	Bore	Local Govt	Monitoring		11/08/2009	5.60	5.60		2.94			303m	South
GW072463	10BL156227, 10WA114625	Bore	Private	Industrial	B & B Drilling Inc	14/11/1994	43.00	43.00		8.60	1.870		311m	South
GW111844	10BL602843	Bore	Local Govt	Monitoring		11/08/2009	4.80	4.80		2.67			340m	South
GW111845	10BL602843	Bore	Local Govt	Monitoring		11/08/2009	3.00	3.00		2.69			342m	South
GW110240	10BL600416, 10BL602332, 10WA114779	Bore	Private	Recreation	Britt's Water Solutions	12/11/2008	150.00	150.00	100	16.50	0.500		442m	South
GW106158	10BL162658, 10WA113466	Bore				29/06/2005							452m	East

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW108971	10BL601798, 10BL602256, 10WA109523	Bore	Other Govt	Recreation	Britt's Water Solutions	27/06/2008	216.00	216.00	Fresh	27.00	0.050		522m	North East
GW113299	10BL604336	Well	Private	Monitoring	Numac	01/11/2010	5.20						544m	South
GW113300	10BL604336	Bore	School	Monitoring	Numac	01/11/2010	5.20	5.20					548m	South
GW104947	10BL160513	Bore		Test Bore	B & B Drilling Inc	21/02/2002	5.00	5.00	210	2.71	0.650		563m	South
GW113301	10BL604336	Bore	School	Monitoring	Numac	01/11/2010	5.20	5.20					580m	South
GW113302	10BL604336	Bore	School	Monitoring		01/11/2010	5.20	5.20					620m	South
GW108861	10BL164832, 10BL601893, 10WA109499	Bore	Local Govt	Recreation	Britt's Water Solutions	08/05/2008	114.00	114.00		20.00	2.210		647m	South
GW113303	10BL604336	Bore	School	Monitoring	Numac	01/11/2010	5.20	5.20					657m	South
GW106098	10BL162313, 10WA113401	Bore	Private	Domestic		22/01/2004	9.50	9.50					707m	South West
GW100768	10BL157198, 10WA113124	Bore	Private	Domestic		01/10/1995	17.39	17.39	Good		0.500		710m	South West
GW110856	10BL601283	Bore	Private	Monitoring	Water Works	22/07/2004	13.20	13.20	176	10.00	1.000		722m	West
GW057008	10BL124553	Bore	Private	Industrial		01/10/1981	30.00	30.00					743m	North West
GW111568	10BL604946	Bore	Private	Monitoring	Groundtek Drilling	01/08/2011	8.60	8.60	123	5.20			754m	West
GW111567	10BL604946	Bore	Private	Monitoring	Groundtek Drilling	01/08/2011	8.00	8.00	145	5.20			765m	West
GW102419	10BL156872, 10CA114623	Bore		Industrial		01/01/1978	22.00			3.00	10.000		865m	North West
GW023445	10BL016690, 10WA112836, 70WA606910	Spear	Private	Domestic		01/11/1965	4.20	4.30	Good				907m	South
GW025890	10BL014914, 10BL600316, 10WA112802	Bore	Other Govt	Irrigation		01/07/1965	31.30	31.40	0-500 ppm				908m	West
GW019634	10BL012859	Bore	Other Govt	Recreation		01/04/1954	32.60	32.60					915m	West
GW107927	10BL600176, 10WA114117	Spear	Private	Domestic	Combined Drilling Services	28/03/2006	10.00						917m	South
GW072971		Spear	Private	Commercial		27/02/1995	9.00	9.00					917m	South
GW104772	10BL161316, 10BL162010, 10CA114623	Bore	Private	Recreation	B & B Drilling Inc	20/02/2003	25.00	25.00	290	4.90	3.000		917m	North West
GW102016	10BL156792, 10WA114637	Bore		Industrial, Recreation	Panorama Drilling Company	11/09/1995	32.00	35.00	Fresh	7.20	18.000		937m	West
GW101682	10BL156791, 10WA114637	Bore	Private	Industrial, Recreation	Panorama Drilling Company	23/08/1995	33.00	41.00	Fresh				966m	West
GW028827	10BL022485	Bore	Other Govt	Recreation		01/07/1968	32.60	32.60					977m	West
GW019635	10BL012860	Bore	Other Govt	Recreation		01/09/1955	28.40	28.50					977m	West
GW101452	10BL158479, 10WA113247	Spear	Private	Domestic		17/02/1998	6.00	6.00					982m	West
GW034992	10BL030088, 10BL156719, 10WA114637	Bore	Private	Industrial, Recreation	Panorama Drilling Company	08/08/1995	41.00	41.00	Fresh	7.50	19.000		990m	West
GW026483		Spear	Private	General Use		01/09/1966	4.80	4.90					1024m	South
GW072908		Spear	Private	Domestic		19/02/1995	8.00	8.00					1036m	South
GW019612	10BL012857	Bore	Other Govt	Recreation		01/10/1955	31.30	31.40					1053m	West
GW113049	10BL602811	Bore	Private	Monitoring	Macquarie Drilling	21/10/2013	8.00	8.00					1068m	West
GW113050	10BL602811	Bore	Private	Monitoring	Macquarie Drilling	12/11/2008	10.50	10.50					1071m	West
GW113051	10BL602811	Bore	Private	Monitoring	Macquarie Drilling	13/11/2008	7.50	7.50					1081m	West

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW104773	10BL161316, 10BL162009, 10CA114623	Bore	Private	Recreation	B & B Drilling Inc	20/02/2003	25.00	25.00	290	4.90	3.000		1089m	North West
GW107789	10BL162853, 10WA113498	Spear	Private	Domestic		01/06/2004	7.00	7.00					1089m	West
GW047543	10BL110202, 10CA114623	Bore	Private	Industrial, Irrigation		01/01/1978	30.50	30.50					1090m	North West
GW108422	10BL600820, 10WA114228	Spear	Private	Domestic		18/01/2007	14.00	14.00					1094m	West
GW040223		Spear	Private	Recreation			7.00	7.15				28.37	1094m	North West
GW113048	10BL602811	Bore	Private	Monitoring		13/11/2008	8.50	8.50					1096m	West
GW040224		Spear	Private	Recreation			7.00	7.00				30.04	1099m	North West
GW107651	10BL165685, 10WA114019	Spear	Private	Domestic	B & B Drilling Inc	29/11/2005	7.00	7.00	Good	5.00	0.500		1103m	West
GW108036	10BL600152, 10WA114113	Spear	Private	Domestic	B & B Drilling Inc	27/03/2006	6.00	6.00		3.00	0.500		1110m	West
GW106774	10BL164077, 10WA113723	Spear	Private	Domestic		23/10/2004	8.23	8.24	Good	5.85	1.000		1112m	West
GW105676	10BL162667, 10WA113468	Spear	Private	Domestic		08/03/2004	9.15	9.15			1.000		1116m	West
GW105978	10BL162744, 10WA113480	Spear	Private	Domestic		29/03/2004	8.23	8.24		5.18	1.000		1116m	West
GW106378	10BL163862, 10WA113695	Spear	Private	Domestic	B & B Drilling Inc	23/08/2004	7.00	7.00	Good	5.00	0.500		1118m	West
GW100985	10BL156951, 10WA113088	Spear	Private	Domestic		28/08/1995	5.18	5.18	Good	2.14	1.000		1119m	North
GW024677	10BL018344	Spear	Private	General Use		01/06/1966	4.80	4.90	Good				1126m	West
GW047542	10BL110201, 10CA114623	Bore	Private	Industrial, Irrigation		01/01/1978	30.50	30.50					1127m	North West
GW047544	10BL108893, 10CA114623	Bore	Private	Industrial, Irrigation		01/07/1978	23.00	23.00					1134m	North West
GW107390	10BL164155, 10WA113740	Spear	Private	Domestic		13/09/2004	7.32	7.32	Good	4.88	1.000		1155m	South West
GW110535	10BL602777, 10WA114536	Bore	Private	Domestic		30/10/2009	12.00	12.00					1159m	West
GW109813	10BL601905	Well	Private	Monitoring	HLA Enviroscienc es	16/05/2007	9.00	9.00					1160m	South West
GW104969	10BL160301, 10WA113307	Bore	Private	Domestic		27/11/2001	6.00	6.00		3.00	1.000		1162m	North West
GW023612	10BL017351, 10WA112893	Spear	Private	General Use		01/01/1966	5.10	5.20	Good				1166m	South West
GW107638	10BL162367, 10WA113415	Spear	Private	Domestic	B & B Drilling Inc	27/10/2005	5.00	5.00	Good	3.00	0.500		1168m	West
GW109849	10BL601020	Bore	Private	Monitoring	Macquarie Drilling	09/08/2006	8.50	8.50		6.10			1173m	South West
GW112793	10BL602685	Bore	Private	Monitoring	Ability Plus Environmental and Geotechnical Drilling Pty Ltd	03/09/2013	4.80	4.80		2.50			1173m	North
GW107584	10BL165704, 10WA114025	Spear	Private	Domestic		10/10/2005	7.50	7.50					1178m	West
GW109810	10BL601905	Well	Private	Monitoring	HLA Enviroscienc es	17/05/2007	9.00	9.00					1178m	South West
GW105754	10BL162297, 10WA113398	Spear	Private	Domestic		27/11/2003	5.18	5.19		1.52	1.000		1181m	West
GW102222	10BL159077, 10WA113275	Spear	Private	Domestic		11/03/1999	9.50	9.50					1182m	South
GW109812	10BL601905	Well	Private	Monitoring	HLA Enviroscienc es	15/04/2007	9.00	9.00					1183m	South West
GW109848	10BL601020	Bore	Private	Monitoring	Macquarie Drilling	08/08/2006	8.70	8.70		6.40			1184m	South West
GW106554	10BL162310, 10WA113400	Spear	Private	Domestic	B & B Drilling Inc	13/11/2004	6.00	6.00	Good	3.00	0.500		1187m	North West
GW109809	10BL601905	Well	Private	Monitoring	HLA Enviroscienc es	18/05/2007	9.00	9.00					1188m	South West

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW109811	10BL601905	Well	Private	Monitoring	HLA Envirosciences	16/05/2007	9.00	9.00					1189m	South West
GW108674	10BL601443, 10WA114349	Spear	Private	Domestic		10/04/2007	8.00	8.00					1191m	West
GW013339	10BL006742	Bore	Private	Recreation		01/05/1956	16.40	16.50	Good			20.90	1191m	West
GW023179	10BL016742, 10WA114771	Spear	Private	Irrigation			7.60	7.60	Good				1191m	West
GW109847	10BL601020	Bore	Private	Monitoring	Macquarie Drilling	07/08/2006	8.50	8.50		6.80			1194m	South West
GW112791	10BL602685	Bore	Private	Monitoring	Ability Plus Environmental and Geotechnical Drilling Pty Ltd	03/09/2013	3.30	3.30		1.90			1196m	North
GW026468	10BL019000	Bore	Private	Recreation		01/07/1966	19.60	19.70					1198m	West
GW105625	10BL162884, 10BL164953, 10WA114735	Bore		Recreation	Intertec Drilling Services	06/12/2004	13.80	14.00	172	4.60	0.900		1203m	North
GW107728	10BL165893, 10WA114056	Spear	Private	Domestic		13/01/2006	7.00	7.00					1206m	West
GW106797	10BL163649, 10WA113642	Spear	Private	Domestic		11/10/2004	7.00	7.00					1207m	West
GW101455	10BL158480, 10WA113248	Spear	Private	Domestic		15/02/1998	6.00	6.00					1210m	West
GW112792	10BL602685	Bore	Private	Monitoring	Ability Plus Environmental and Geotechnical Drilling Pty Ltd	03/09/2013	5.00	5.00		2.50			1210m	North
GW101453	10BL158478, 10WA113246	Spear	Private	Domestic		03/02/1998	6.00	6.00					1211m	West
GW101645	10BL154344, 10WA113011	Bore		Domestic		01/03/1994	7.00						1237m	South West
GW108225	10BL600443, 10WA114146	Bore	Private	Domestic		19/08/2006	14.00	14.00					1256m	South West
GW108507	10BL600353, 10WA114138	Spear	Private	Domestic		15/07/2006	8.00	8.00					1264m	South West
GW106087	10BL162976	Spear	Private	Domestic		14/04/2004	7.63	7.63		4.58	1.000		1264m	North
GW109054	10BL602149, 10WA114453	Spear	Private	Domestic		15/07/2008	8.00						1264m	South West
GW108166	10BL600428, 10WA114145	Spear		Domestic		29/05/2007	8.00				10.000		1265m	North
GW106671	10BL162426, 10WA113425	Spear	Private	Domestic		15/10/2004	9.50	9.50					1269m	North
GW108207	10BL162227, 10WA113369	Spear		Domestic		01/01/2004	9.50			5.00	1.000		1272m	North
GW110099	10BL162241, 10WA113374	Bore	Private	Domestic		01/01/2003	8.00			2.00	2.500		1275m	North
GW106078	10BL162975, 10WA113514	Spear	Private	Domestic		14/04/2004	7.32	7.32		4.27	1.000		1276m	North
GW106973	10BL163973, 10WA113712	Spear	Private	Domestic	B & B Drilling Inc	18/02/2005	6.00	6.00	Good	3.00	0.500		1280m	West
GW107641	10BL165333, 10WA113962	Spear	Private	Domestic		01/11/2005	7.50	7.50					1283m	West
GW105730	10BL162270, 10WA113386	Bore	Private	Domestic		15/11/2003	8.00	8.00					1284m	North
GW107289	10BL165159, 10WA113928	Spear	Private	Domestic		17/07/2005	14.03	14.03	Good	10.37	1.000		1286m	South
GW106076	10BL163154, 10WA113532	Spear	Private	Domestic		22/06/2004	5.80	5.80		1.83	1.000		1291m	West
GW106488	10BL163625, 10WA113634	Spear	Private	Domestic		01/11/2004	6.10	6.10	Good	3.50	1.000		1292m	West
GW107614	10BL164804, 10WA113863	Spear	Private	Domestic	B & B Drilling Inc	24/10/2005	6.00	6.00	Good	3.00	0.500		1293m	West
GW107342	10BL165349, 10WA113965	Spear	Private	Domestic		25/08/2005	5.18	5.19	Good	3.35	1.000		1294m	North West
GW072219		Spear	Private	Domestic		28/02/1995	8.00	8.00					1295m	North

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW101219	10BL158306, 10WA113218	Spear	Private	Domestic	A Korkadis	02/12/1997	4.88	4.88	Good	2.13	0.750		1297m	West
GW110786	10BL602904, 10WA114555	Spear	Private	Domestic		11/03/2010	8.00	8.00					1302m	West
GW101699	10BL158646, 10WA113259	Bore		Domestic		03/06/1998	7.00	7.00					1303m	North
GW101225	10BL158321, 10WA113222	Spear	Private	Domestic	A Korkadis	09/12/1997	6.00	6.00	Good	3.05	1.000		1303m	West
GW103051	10BL159257, 10WA113283	Bore		Domestic	A Korkadis	28/06/1999	5.80	5.80	Good	3.05	1.000		1304m	South West
GW101456	10BL158481, 10WA113249	Bore	Private	Domestic		04/02/1998	6.00	6.00					1305m	West
GW109117	10BL602224, 10WA114465	Spear	Private	Domestic	Combined Drilling Services	25/07/2008	9.00						1307m	West
GW113105	10BL602800	Bore	Private	Monitoring	Macquarie Drilling	18/11/2008	4.90	4.90					1307m	East
GW103644	10BL159632, 10WA113294	Bore	Private	Domestic		03/04/2000	7.00	7.00					1308m	West
GW102598	10BL159410, 10WA113287	Bore		Domestic		09/10/1999	6.00	6.00					1311m	West
GW101458	10BL158491, 10WA113251	Spear	Private	Domestic		05/03/1998	6.00	6.00					1314m	West
GW106862	10BL164871, 10WA113878	Spear	Private	Domestic		10/03/1995	7.63	7.63	Good	4.58	1.000		1315m	West
GW102611	10BL159396, 10WA113286	Bore		Domestic		25/09/1999	6.00	6.00					1316m	West
GW107653	10BL165654, 10WA114012	Spear	Private	Domestic		12/12/2005	9.50	9.50					1317m	West
GW113251	10WA118703	Spear	Private	Domestic		01/01/2000	7.50	7.50		4.00	0.200		1320m	West
GW106249	10BL163304, 10WA113555	Spear	Private	Domestic		02/06/2004	6.00	6.00					1326m	West
GW113109	10BL602800	Bore	Private	Monitoring	Macquarie Drilling	23/07/2009	3.50	3.50					1327m	East
GW072974		Bore	Private	Domestic		06/05/1995	10.00	10.00					1328m	South
GW108442	10BL600983, 10WA114258	Spear	Private	Domestic		06/01/2007	8.00	8.00					1328m	West
GW107335	10BL165306, 10WA113955	Spear	Private	Domestic	Water Works	17/09/2005	7.00	7.00		3.00	0.500		1330m	West
GW113108	10BL602800	Bore	Private	Monitoring	Macquarie Drilling	23/07/2009	7.00	7.00					1331m	East
GW113107	10BL602800	Bore	Private	Monitoring	Macquarie Drilling	20/07/2009	8.50	8.50					1336m	East
GW107296	10BL163785, 10WA113680	Spear	Private	Domestic		16/04/2005	6.00	6.00					1336m	South West
GW113106	10BL602800	Bore	Private	Monitoring	Macquarie Drilling	18/11/2008	5.50	5.50					1337m	East
GW023290	10BL016656, 10WA112832	Spear	Private	General Use		01/09/1965	4.20	4.30					1339m	North West
GW101157	10BL157030, 10WA113099	Spear	Private	Domestic		06/09/1995	6.10	6.10	Good	3.96	1.000		1340m	South West
GW105307	10BL163293, 10WA113553	Bore		Domestic		01/01/1970							1344m	West
GW025781	10BL017054, 10WA112860	Spear	Private	General Use		01/10/1965	4.50	4.60	Good				1347m	West
GW105877	10BL162678, 10WA113472	Bore				09/05/2005							1350m	South
GW106661	10BL164001, 10WA113719	Spear	Private	Domestic		10/10/2004	15.25	15.25		8.23	1.000		1364m	South
GW111438	10BL600923, 10WA114246	Spear	Private	Domestic		11/02/2007	6.10	6.10	good	3.50	1.000		1365m	South West
GW106296	10BL163764, 10WA113672	Spear	Private	Domestic		09/08/2004	6.10	6.10	Good	3.05	1.000		1369m	West
GW107142	10BL165146, 10WA113926	Spear	Private	Domestic		20/06/2005	17.80	17.80		11.5 5	1.000		1375m	West
GW107129	10BL164723, 10WA113842	Spear	Private	Domestic		11/05/2005	12.81	12.81	Good	7.32	1.000		1376m	West
GW075021		Bore	NSW Office of Water	Monitoring	McDermott Drilling Pty Ltd	13/07/1998	43.00	44.50		3.23		8.54	1379m	West

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW107612	10BL164378, 10WA113786	Spear	Private	Domestic		18/12/2004	12.81	12.81	Good	10.68	1.000		1379m	West
GW111615	10BL163626, 10WA113635	Spear	Private	Domestic		01/10/2004	7.00	7.00	good				1383m	West
GW106297	10BL163795, 10WA113685	Spear	Private	Domestic		10/08/2004	8.23	8.24	Good	5.18	1.000		1383m	West
GW108918	10BL601790, 10WA114415	Spear	Private	Domestic		17/06/2008	7.93		Good	4.58	1.000		1387m	West
GW106005	10BL163101, 10WA113526	Spear	Private	Domestic		20/05/2004	12.29	12.29		7.93	1.000		1390m	South West
GW106386	10BL163574, 10WA113615	Spear	Private	Domestic		24/09/2004	7.32	7.32		2.13	1.000		1392m	South West
GW106766	10BL162335, 10WA113407	Spear	Private	Domestic	B & B Drilling Inc	12/12/2004	6.00	6.00	Good	3.00	0.500		1392m	West
GW109119	10BL602250, 10WA114473	Spear	Private	Domestic		25/07/2008	7.63		Good	13.05	1.000		1393m	West
GW103124	10BL156139, 10CA114621	Excavation		Recreation		01/01/1995	75.00	75.00			40.000		1401m	North West
GW101967	10BL158599, 10WA113257	Bore		Domestic		28/04/1998	7.00	7.00					1403m	West
GW108229	10BL600466, 10WA114152	Spear	Private	Domestic		06/08/2006	17.00	17.00					1403m	West
GW042173		Spear	Local Govt	Stock								24.70	1404m	South West
GW105438	10BL162238, 10WA113373	Bore		Domestic		03/11/2003	7.63	7.63		4.58	1.000		1406m	West
GW110874	10BL601374, 10WA114330	Spear	Private	Domestic		10/03/2007	7.93			7.00			1409m	West
GW114951	10WA119158	Spear	Private	Domestic	B&B Drilling	06/07/2015	6.00	6.00		3.00	0.500		1410m	West
GW105771	10BL162543, 10WA113443	Spear	Private	Domestic		08/12/2004	7.01	7.02			1.000		1410m	South West
GW105567	10BL162124, 10WA113352	Bore		Domestic	B & B Drilling Inc	30/10/2003	7.00	7.00	Good	4.70	0.500		1416m	West
GW105630	10BL162435, 10WA113427	Spear	Private	Domestic		08/12/2003	5.18	5.19		3.36	1.500		1417m	West
GW072280	10BL154860, 10WA113013	Bore	Private	Domestic		02/06/1994	8.00	8.00					1417m	West
GW106366	10BL163804, 10WA113690	Spear	Private	Domestic		18/09/2004	5.81	5.81	Good	3.05	1.000		1417m	West
GW111004	10BL604103, 10WA114603	Spear	Private	Domestic		19/07/2010	13.12	13.12	good	4.88	1.000		1418m	West
GW111445	10BL601938, 10WA114423	Spear	Private	Domestic		09/04/2011	8.00	8.00					1421m	West
GW100815	10BL156330, 10WA113038	Bore				01/01/1994	14.00			8.00			1427m	West
GW107093	10BL165718, 10WA114030	Bore		Domestic	A Korkadis	02/05/2006	13.73	13.73	Good	5.18	1.000		1428m	West
GW108443	10BL600984, 10WA114259	Spear	Private	Domestic	Combined Drilling Services	12/01/2007	14.50			8.00			1437m	South
GW109062	10BL601484, 10WA114362	Bore	Private	Domestic	B & B Drilling Inc	16/07/2008	7.00		Good	5.00	0.500		1440m	North West
GW110342	10BL165553	Well	Private	Monitoring		23/11/2004	4.00	4.00	261	2.40			1440m	North West
GW108596	10BL601365, 10WA114327	Spear	Private	Domestic		20/02/2007	16.00	16.00					1442m	South East
GW110338	10BL165553	Well	Private	Monitoring		20/10/2004	4.00	4.00	237	2.24			1442m	North West
GW110337	10BL165553	Well	Private	Monitoring		20/10/2004	4.00	4.00	136	2.16			1442m	North West
GW107681	10BL163088	Bore				15/12/2006							1444m	North West
GW105551	10BL162406, 10WA113423	Bore		Domestic		01/02/2003	7.63	7.63		4.58	1.000		1444m	West
GW110339	10BL165553	Well	Private	Monitoring		20/10/2004	4.00	4.00	315	2.42			1445m	North West
GW111724	10BL165065, 10WA113914	Spear	Private	Domestic		01/01/2008	6.00	6.00		4.50	1.000		1446m	North
GW108660	10BL164127, 10WA113733	Spear	Private	Domestic		19/04/2007	16.00	16.00					1448m	West
GW110336	10BL165553	Well	Private	Monitoring		18/10/2004	4.00	4.00	251	2.57			1449m	North West

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW109774	10BL165829, 10WA114047	Spear	Private	Domestic		01/01/2005	10.00			3.00	0.500		1450m	South
GW110341	10BL165553	Well	Private	Monitoring		23/11/2004	4.00	4.00	140	2.51			1452m	North West
GW075018		Bore	NSW Office of Water	Monitoring	McDermott Drilling Pty Ltd	08/07/1998	43.00	44.00		0.48		8.59	1459m	North West
GW110340	10BL165553	Well	Private	Monitoring		21/10/2004	4.00	4.00	140	2.36			1464m	North West
GW110335	10BL165553	Well	Private	Monitoring		18/10/2004	4.00	4.00	133	2.88			1464m	North West
GW107431	10BL165301, 10WA113952	Spear	Private	Domestic		08/09/2005	7.63	7.63	Good	3.50	1.000		1465m	North West
GW107327	10BL165206, 10WA113935	Spear	Private	Domestic	B & B Drilling Inc	22/07/2005	7.00	7.00	Good	5.00	0.500		1478m	West
GW108700	10BL601663, 10WA114403	Spear	Private	Domestic		12/05/2007	7.93	7.93	Good	3.96	1.000		1481m	West
GW023117	10BL016870, 10WA112849	Spear	Private	General Use		01/11/1965	6.00	6.10					1484m	West
GW107444	10BL165466, 10WA113983	Spear	Private	Domestic	Water Works	10/09/2005	7.00	7.00	430	3.00	0.500		1484m	West
GW107154	10BL164908, 10WA113883	Spear	Private	Domestic		26/05/2005	7.93	7.93		4.88	1.000		1486m	West
GW108212	10BL600131, 10WA114105	Spear	Private	Domestic	Chris Mylonas	18/09/2006	12.00			9.00			1488m	West
GW107417	10BL164727, 10WA113844	Spear	Private	Domestic	B & B Drilling Inc	12/10/2005	7.00	7.00	Good	5.00	0.500		1488m	West
GW029637	10BL023577, 10WA112997	Spear	Private	General Use		01/02/1969	4.40	4.40	Good				1493m	West
GW104890	10BL161843, 10BL162062, 10CA114621	Bore	Other Govt	Irrigation	Intertec Drilling Services	19/06/2003	25.00	25.80	104	0.90	1.000		1495m	North West
GW023996	10BL017432, 10WA112897	Spear	Private	Domestic		01/01/1966	4.50	4.60	Good				1500m	West
GW107906	10BL600188, 10WA114118	Spear	Private	Domestic		01/04/2006	7.50	7.50					1501m	West
GW109035	10BL600556, 10WA114164	Spear	Private	Domestic		14/07/2008	12.00						1503m	North West
GW109052	10BL602180, 10WA114460	Spear	Private	Domestic		15/07/2008	10.00						1505m	West
GW108428	10BL600893, 10WA114240	Bore	Private	Domestic		08/01/2007	8.00	8.00					1514m	North West
GW110448	10BL602895, 10WA114553	Spear	Private	Domestic		28/02/2009	9.00	9.00	Other	5.00	1.000		1514m	West
GW108448	10BL601046, 10WA114271	Spear	Private	Domestic		19/01/2007	16.00	16.00					1515m	South
GW107668	10BL164166, 10WA113744	Spear	Private	Domestic		12/12/2005	12.81	12.81	Good	6.41	1.000		1517m	West
GW017473	10BL008402	Spear	Private	General Use			7.60	7.60					1518m	West
GW106237	10BL163544, 10WA113607	Bore	Private	Domestic	Water Works	24/06/2004	9.00	9.00		6.00	0.500		1519m	West
GW023138	10BL017078, 10WA112863	Spear	Private	General Use		01/09/1965	4.80	4.90	Excellent				1520m	West
GW108595	10BL601333, 10WA114322	Spear	Private	Domestic		03/02/2007	8.00	8.00					1520m	South West
GW107805	10BL165702, 10WA114024	Bore	Private	Domestic	Combined Drilling Services	27/02/2006							1526m	North
GW108472	10BL601127, 10WA114288	Spear	Private	Domestic		06/01/2007	16.00	16.00					1527m	South
GW105717	10BL162470, 10WA113435	Bore	Private	Domestic	B & B Drilling Inc	07/01/2004	6.00	6.00	Good	3.50	0.500		1528m	West
GW023529	10BL016955, 10WA112853	Spear	Private	General Use		01/12/1965	6.70	6.70	Good				1531m	South
GW105431	10BL163345, 10BL164439, 10BL604809, 10WA114723, 10WA117789	Bore		Recreation	Southern Tablelands Drilling	02/08/2004	30.00	30.00		8.10	10.000		1535m	South East

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW053600	10BL120842, 10BL604569, 10BL604809, 10BL605130, 10WA114691, 10WA117791	Bore	Local Govt	Recreation		01/04/1981	29.00	30.50	0-500 ppm				1535m	South East
GW104966	10BL160279, 10WA113306	Bore	Private	Domestic		29/09/2001	6.00	6.10		3.05	1.000		1537m	West
GW108275	10BL600132, 10WA114106	Spear	Private	Domestic	Chris Mylonas	01/05/2006	12.00			8.00			1544m	West
GW107336	10BL165316, 10WA113959	Spear	Private	Domestic		15/08/2005	7.00	7.00					1546m	North West
GW110423	10BL602943, 10WA114561	Spear	Private	Domestic		19/03/2009	12.00	12.00	Other	7.50	1.000		1551m	South
GW106178	10BL163264, 10WA113549	Spear	Private	Domestic	B & B Drilling Inc	03/07/2004	7.00	7.00		5.00	0.500		1555m	South West
GW023659	10BL018050, 10WA112936	Spear	Private	General Use		01/01/1966	4.80	4.90	Good				1559m	South West
GW023572	10BL017647, 10WA112924	Spear	Private	General Use		01/01/1960	3.60	3.70	Good				1562m	West
GW109769	10BL165796, 10WA114044	Spear	Private	Domestic		01/01/2005	8.00			2.00	2.500		1564m	South
GW024367	10BL018457	Spear	Private	General Use		01/07/1966	4.20	4.30	Good				1564m	North West
GW101162	10BL157033, 10WA113101	Spear	Private	Domestic		06/09/1995	6.10	6.10	Good	3.50	1.000		1565m	West
GW102008	10BL158612, 10WA113258	Bore		Domestic		20/04/1998	6.10	6.10	Good	1.83	6.100		1572m	West
GW106875	10BL164501, 10WA113804	Spear	Private	Domestic		24/01/2005	5.80	5.80		3.05	1.000		1572m	West
GW108822	10BL165672, 10WA114016	Spear	Private	Domestic		12/12/2006	14.00	14.00	Good		1.000		1574m	South
GW025540	10BL016659, 10WA112833	Spear	Private	General Use		01/12/1965	4.80	4.90	Good				1574m	South
GW106752	10BL164167, 10WA113745	Spear	Private	Domestic		30/10/2004	9.50	9.50					1574m	South
GW101883	10BL157490, 10WA113161	Bore		Domestic		26/02/1996	10.00	10.00					1575m	South
GW105969	10BL162735, 10WA113479	Spear	Private	Domestic		25/05/2006	9.46	9.46	Good	7.01	1.000		1584m	West
GW107514	10BL163864, 10WA113697	Spear	Private	Domestic		01/09/2005	7.50	7.50					1592m	South West
GW107593	10BL165651, 10WA114011	Spear	Private	Domestic		29/11/2005	12.20	12.20	Good	6.41	1.000		1593m	West
GW024024	10BL018394, 10WA112945	Spear	Private	General Use		01/12/1965	6.00	6.10	Good				1594m	South
GW107804	10BL165841, 10WA114048	Spear	Private	Domestic		20/01/2006	13.42	13.42	Good	7.63	1.000		1595m	West
GW075025		Bore	NSW Office of Water	Monitoring	McDermott Drilling Pty Ltd	20/07/1998	24.20	25.50		9.13		8.52	1604m	South West
GW106132	10BL162281, 10WA113391	Spear	Private	Domestic		27/04/2004	10.37	10.37	Good		1.000		1608m	West
GW100831	10BL157546, 10WA113164	Spear	Private	Domestic		12/03/1996	6.10	6.10	Good	3.50	1.000		1614m	West
GW106165	10BL163192, 10WA113536	Bore				29/06/2005							1622m	South West
GW105496	10BL162469, 10WA113434	Bore		Domestic		06/10/2003	10.00						1623m	South
GW111279	10BL600619, 10WA114180	Spear	Private	Domestic	B&B Drilling	14/11/2001	6.00	6.00					1623m	West
GW106146	10BL157102, 10WA113112	Spear	Private	Domestic		21/09/1995	7.32	7.32	Good		1.000		1623m	West
GW110956	10BL601399, 10WA114338	Spear	Private	Domestic		01/01/2007	12.19	12.19					1625m	South
GW102294	10BL159092, 10WA113276	Spear	Private	Domestic		06/03/1999	10.00	10.00					1625m	South
GW106854	10BL163505, 10WA113597	Spear	Private	Domestic		15/02/2005	7.00	7.00					1628m	North East
GW106106	10BL163269, 10WA113550	Spear	Private	Domestic		02/06/2004	7.01	7.02		3.96	1.000		1629m	West
GW073459		Bore	Private	Domestic		24/10/1995	7.00	7.00	Good				1629m	West

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GW111465	10BL604400, 10WA114613	Spear	Private	Domestic	B&B Drilling	17/05/2011	9.00	9.00	good	7.00	0.500		1631m	West
GW108394	10BL600558, 10WA114165	Bore	Private	Domestic		26/10/2006	16.00	16.00					1633m	South
GW024206	10BL018634, 10WA112963	Spear	Private	General Use		01/08/1966	5.40	5.50	Good				1635m	South
GW107447	10BL163858, 10WA113693	Spear	Private	Domestic		17/06/2004	8.23	8.24	Good	5.49	1.000		1638m	North East
GW110780	10BL601147, 10WA114289	Spear	Private	Domestic		10/02/2010	23.00	23.00		17.00	1.000		1639m	West
GW108942	10BL601904, 10WA114422	Spear	Private	Domestic		19/06/2008	7.32		Good	3.96	1.000		1641m	West
GW109922	10BL602855, 10WA114547	Spear	Private	Domestic		20/01/2009	4.58	4.58		2.44	1.000		1642m	South West
GW047125	10BL105641, 10BL601141	Bore	Local Govt	Recreation		01/05/1976	24.40	24.40		4.00			1645m	South West
GW108640	10BL165794, 10WA114042	Spear	Private	Domestic		01/03/2006	7.50	7.50					1646m	South West
GW108705	10BL601552, 10WA114372	Spear	Private	Domestic		27/03/2004	13.72	13.73	Good	4.58	1.000		1646m	West
GW103325	10BL159870, 10WA113297	Bore		Domestic		16/09/2000	7.00	7.00					1646m	West
GW023998	10BL016443, 10WA112819	Bore	Private	General Use		01/09/1965	35.90	36.00					1647m	West
GW111553	10BL165565, 10WA113994	Bore	Private	Domestic		01/01/2005	14.00	14.00					1649m	North
GW072994	10BL156371, 10WA113044	Bore	Private	Domestic		20/08/1995	9.50	9.50					1649m	South West
GW107578	10BL164156, 10WA113741	Spear	Private	Domestic		10/11/2004	16.47	16.47	Good	12.81	1.000		1649m	South
GW108805	10BL601712, 10WA114407	Spear	Private	Domestic		01/01/2007	20.00			15.00	1.000		1649m	West
GW104525	10BL160923	Bore	Private	Monitoring	Intertec Drilling Services	13/11/2002	17.65	17.65	Good	2.00	7.000		1650m	North West
GW108998	10BL601009, 10WA114263	Spear	Private	Domestic		09/07/2008	13.72		Good	4.58	1.000		1652m	West
GW111452	10BL601572, 10WA114378	Spear	Private	Domestic		01/01/1962	9.00	9.00					1654m	West
GW108286	10BL600521, 10WA114159	Spear	Private	Domestic		13/11/2006	15.25	15.25		4.88	1.000		1658m	West
GW025716	10BL016548, 10WA112823	Spear	Private	General Use		01/01/1945	4.80						1658m	South
GW042169		Bore - Nested (2)	NSW Office of Water	Monitoring			29.80	29.80				20.20	1663m	South West
GW106915	10BL164684, 10WA113830	Spear	Private	Domestic		03/04/2005	7.50	7.50					1666m	South West
GW023841	10BL017496, 10WA112903	Spear	Private	General Use		01/03/1966	4.50	4.60	Good				1667m	South
GW110058	10BL600038, 10WA114085	Spear	Private	Domestic		01/01/2006	8.00			2.00	2.200		1678m	North East
GW104646	10BL161240, 10WA113332	Bore	Private	Domestic		17/01/2003	10.00	10.00					1678m	West
GW105770	10BL162554, 10WA113446	Spear	Private	Domestic		07/01/2004	7.01	7.02		4.58	1.000		1678m	West
GW110193	10BL600021, 10WA114081	Bore	Private	Domestic		22/02/2006	24.00	24.00	Good	18.00	1.000		1678m	West
GW104992	10BL160433, 10WA113315	Bore	Private	Domestic		24/01/2002	9.00	9.00		6.50	1.000		1680m	South
GW113243	10BL602802	Bore	Private	Monitoring	Macquarie Drilling	10/11/2008	13.00	13.00					1683m	South
GW111248	10BL162151, 10BL601857, 10WA114799	Bore	Private	Recreation	STD	20/01/2004	30.00	30.00		6.00			1684m	South West
GW106031	10BL162808, 10WA113487	Spear	Private	Domestic		31/03/2004	5.80	5.80			1.000		1687m	West
GW113245	10BL602802	Bore	Private	Monitoring	Macquarie Drilling	10/11/2008	13.00	13.00					1690m	South
GW101783	10BL157374, 10WA113152	Bore		Domestic		18/12/1995	5.00	5.00					1694m	West
GW105962	10BL163248, 10WA113544	Bore				24/05/2005	14.00						1699m	South

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GW108837	10BL163015, 10WA113519	Spear	Private	Domestic		21/01/2006	7.50	7.50					1701m	West
GW113242	10BL602802	Bore	Private	Monitoring	Macquarie Drilling	10/11/2008	13.00	13.00					1701m	South
GW113244	10BL602802	Bore	Private	Monitoring	Macquarie Drilling	10/11/2008	13.00	13.00					1704m	South
GW111585	10WA114280	Bore	Private	Domestic		01/01/2007	21.00	21.00					1705m	West
GW046836	10BL107197, 10BL132425, 10WA114639	Bore	Local Govt	Industrial, Recreation		01/10/1970	37.80	37.80					1706m	South West
GW110778	10BL601234, 10WA114305	Spear	Private	Domestic		25/01/2010	23.00	23.00		18.00	1.000		1708m	West
GW107041	10BL162902, 10WA113509	Spear	Private	Domestic	Water Works	29/04/2004	20.00		370	15.00	1.000		1711m	West
GW107042	10BL162901, 10WA113508	Spear	Private	Domestic	Water Works	29/04/2004	20.00		370	15.00	1.000		1713m	West
GW111307	10BL600465, 10WA114151	Bore	Private	Domestic		25/05/2010	18.00	18.00		14.00	1.000		1715m	West
GW109216	10BL602549, 10WA114523	Spear	Private	Domestic		15/08/2008	30.00						1715m	West
GW073445		Spear	Private	Domestic		20/10/1995	10.00						1716m	West
GW112525	10BL600682, 10BL602307, 10WA118709	Bore	Private	Industrial	B&B Drilling	16/10/2008	30.00	30.00		10.60			1718m	South
GW107760	10BL165566, 10WA113995	Bore	Private	Domestic		19/01/2007	6.00						1725m	West
GW108433	10BL600969, 10WA114253	Spear	Private	Domestic		29/01/2007	12.81	12.81	Good	8.10	1.000		1730m	West
GW107132	10BL164682, 10WA113829	Spear	Private	Domestic		23/05/2005	14.64	14.64	Good	7.32	1.000		1733m	South West
GW106069	10BL163194, 10WA113537	Spear	Private	Domestic		31/05/2004	7.01	7.02		4.58	1.000		1735m	West
GW111696	10BL164365, 10WA113782	Bore	Private	Domestic		01/10/2008	22.00	22.00		16.00	1.000		1735m	West
GW027616	10BL019784, 10WA112992	Bore	Private	Industrial		01/08/1967	32.60	32.60					1736m	South
GW106863	10BL164867, 10WA113877	Spear	Private	Domestic		15/03/2005	16.47	16.47	Good	7.93	1.000		1738m	South West
GW104984	10BL160373, 10WA113310	Bore	Private	Domestic		24/01/2002	9.00	9.00		7.00	1.000		1743m	West
GW026584	10BL019542, 10WA112986	Spear	Private	General Use		01/11/1966	6.00	6.10					1744m	South
GW107137	10BL164534, 10WA113808	Spear	Private	Domestic		03/05/2005	7.63	7.63		3.96	1.000		1747m	North West
GW107738	10BL165938, 10WA114063	Spear	Private	Domestic	B & B Drilling Inc	05/01/2006	7.00	7.00	Good	5.00	0.500		1748m	West
GW029355	10BL019786	Bore	Private	Industrial		01/07/1968	28.90	29.00					1751m	South
GW023991	10BL018144, 10WA112940	Spear	Private	General Use		01/05/1966	5.70	5.80	Good				1752m	South
GW107430	10BL165324, 10WA113961	Spear	Private	Domestic		12/09/2005	9.15	9.15	Good	3.10	1.000		1752m	North West
GW107534	10BL165409, 10WA113973	Spear	Private	Domestic		05/09/2005	6.10	6.10	Good	2.44	1.000		1753m	North West
GW104928	10BL160633, 10WA113319	Bore	Private	Domestic	B & B Drilling Inc	28/10/2002	9.00	9.00		5.80	0.400		1763m	North West
GW109490	10BL164954, 10WA113897	Bore	Private	Domestic	B & B Drilling Inc	21/04/2005	18.00	18.00	Good	12.00	0.400		1765m	West
GW104991	10BL160432, 10WA113314	Bore	Private	Domestic		04/04/2002	9.00	9.00		6.50	1.000		1768m	West
GW101072	10BL158251, 10WA113211	Spear	Private	Domestic		11/11/1997	10.00	10.00					1774m	South
GW109098	10BL162923, 10WA113510	Spear	Private	Domestic		23/07/2008	10.68			6.10	1.000		1775m	North West
GW108048	10BL600304, 10WA114134	Spear	Private	Domestic		12/06/2006	16.16	16.17		8.24	1.000		1780m	South West
GW023270	10BL016732, 10WA112840	Spear	Private	General Use			7.00	7.00					1781m	South West
GW027462	10BL020600	Bore	Private	General Use		01/07/1967	20.70	20.70	Other				1782m	North West
GW108046	10BL600288, 10WA114132	Spear	Private	Domestic		17/06/2006	15.86	15.86		8.23	1.000		1783m	South West

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW105999	10BL162445, 10WA113429	Spear	Private	Domestic		22/03/2004	10.68	10.68			1.000		1791m	North West
GW072922		Spear	Private	Domestic		22/02/1995	6.70	6.70					1794m	North West
GW108296	10BL600618, 10WA114179	Spear	Private	Domestic		05/11/2006	16.00	16.00					1797m	West
GW107348	10BL165062, 10WA113911	Spear	Private	Domestic		19/07/2005	13.42	13.42		9.15	1.000		1813m	North West
GW101069	10BL158216, 10WA113205	Spear	Private	Domestic		11/10/1997	10.00	10.00					1819m	South
GW028289	10BL018447, 10WA112950	Spear	Private	General Use		01/09/1966	6.00	6.10	Very Good				1827m	West
GW107391	10BL163366, 10WA113565	Spear	Private	Domestic		10/12/2004	7.01	7.02	Good	3.66	1.000		1829m	North West
GW019633	10BL012858	(Unkn own)	Other Govt	Recreation		01/11/1961	35.00	35.10					1830m	South West
GW108498	10BL164824	Spear	Private	Domestic		22/01/2006	18.00	18.00					1832m	South
GW107404	10BL164764, 10BL165185, 10WA114739	Bore		Irrigation	B & B Drilling Inc	18/03/2005	32.00	32.00	Good	12.40	1.000		1838m	South
GW060243	10BL132429, 10WA114645	Bore	Local Govt	Industrial, Recreation		01/05/1973	33.50						1844m	South
GW107740	10BL165598, 10WA114001	Spear	Private	Domestic		19/10/2005	11.50	11.50	Good	9.00	1.000		1846m	South East
GW111144	10BL601072, 10WA114279	Spear	Private	Domestic		16/01/2007	8.00	8.00		4.00	0.500		1850m	South
GW111247	10BL162151, 10BL601856, 10WA114799	Bore	Private	Recreation	STD	14/04/2004	36.00	36.00		7.00			1852m	South West
GW105964	10BL162729, 10WA113478	(Unkn own)	Private	Domestic		01/06/2004	9.50	9.50					1853m	North West
GW107594	10BL165650, 10WA114010	Spear	Private	Domestic		15/10/2005	10.00	10.00					1855m	South
GW107385	10BL164899, 10WA113880	Spear	Private	Domestic		08/09/2005	9.50	9.50					1861m	South
GW038009	10BL101948	Bore	Private	Recreation		01/09/1969	21.30	22.90	Good				1863m	North West
GW017341	10BL008542, 10CA114657	Bore	Private	Recreation			18.20						1865m	West
GW027615	10BL019783, 10WA112991	Bore	Private	Industrial		01/07/1967	36.20	36.30					1867m	South
GW060170	10BL131560, 10WA114635	Bore	Private	Industrial			20.00	20.00	Good				1871m	South West
GW109313	10BL602424, 10WA114510	Spear	Private	Domestic	Ultra Drilling	09/09/2008	84.00		200	23.00	1.000		1872m	North West
GW042159		Bore	NSW Office of Water	Monitoring			24.00					24.82	1873m	West
GW075017		Bore	NSW Office of Water	Monitoring	McDermott Drilling Pty Ltd	07/07/1998	28.50	29.50	Fresh	1.75		8.56	1874m	West
GW040781		Bore	Private				3.29						1875m	South West
GW029354	10BL019785, 10WA112993	Bore	Private	Industrial		01/08/1968	37.70	37.80					1876m	South
GW107741	10BL165165, 10WA113929	Spear	Private	Domestic		05/01/2006	9.00	9.00					1885m	West
GW106945	10BL164837, 10WA113867	Spear	Private	Domestic		15/04/2005	9.50	9.50					1886m	West
GW106021	10BL162581, 10WA113452	Spear	Private	Domestic		22/03/2003	16.47	16.47		7.32	1.000		1890m	West
GW111600	10BL604978	Bore	Private	Monitoring	UNSW	29/09/2011	20.00	20.00		5.00			1891m	South West
GW111624	10BL165365	Bore	Private	Monitoring		05/08/2005	36.00	36.00		5.00			1891m	South West
GW113043	10BL602360, 10WA114497	Bore	Private	Domestic		22/01/2008	12.00	12.00		9.00	0.250		1891m	South
GW013436	10BL006753, 10WA112788	Bore	Private	Industrial		01/11/1955	34.30	34.30					1892m	South

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW110542	10BL603341, 10WA114577	Bore	Private	Domestic	Intertec Drilling Services	12/10/2009	27.80	28.00	134	12.20	0.600		1895m	North
GW106028	10BL162949, 10WA113311	Spear	Private	Domestic	B & B Drilling Inc	21/06/2004	5.00	5.00	Good	3.00	0.500		1896m	North West
GW042165		Spear	NSW Office of Water	Monitoring, Stock		13/02/1975						25.50	1896m	South
GW111238	10BL600173, 10WA114116	Bore	Private	Domestic		11/10/2010	12.00	12.00					1901m	West
GW107643	10BL164000, 10WA113718	Spear	Private	Domestic	B & B Drilling Inc	19/07/2005	7.00	7.00	Good	5.00	0.500		1918m	West
GW109042	10BL602008, 10WA114429	Spear	Private	Domestic		14/07/2008	17.69		Good	8.54	1.000		1919m	West
GW105040	10BL161099, 10WA113326	Bore		Domestic		20/03/2003	8.00	8.00		5.00	1.000		1928m	North West
GW110538	10BL603119, 10WA114570	Spear	Private	Domestic		08/09/2009	8.00	8.00					1930m	North West
GW100755	10BL157572, 10CA114657	Bore	Private	Irrigation, Recreation	B & B Drilling Inc	30/10/1996	19.50	19.50		3.40	12.500		1939m	West
GW108703	10BL601650, 10WA114398	Bore	Private	Domestic		01/01/1982	8.00				40.000		1944m	North West
GW017651	10BL008543, 10BL159954, 10CA114657	Bore	Private	Recreation		01/02/1954	29.20	29.30					1952m	West
GW105492	10BL162700, 10WA113474	Bore		Domestic		15/04/2004	6.71	6.71		4.58	1.000		1953m	West
GW111150	10BL600535, 10WA114161	Spear	Private	Domestic		20/10/2010	12.00	12.00					1956m	South
GW109118	10BL602249, 10WA114472	Bore	Private	Domestic		25/07/2008	7.63		Good	3.05	1.000		1959m	North West
GW110522	10BL601432, 10WA114346	Spear	Private	Domestic		24/10/2009	12.00	12.00	Good	6.00	1.000		1965m	South
GW108400	10BL600676, 10WA114193	Spear	Private			15/10/2007	7.01		Good	3.96	1.000		1966m	North West
GW110439	10BL602887, 10WA114551	Spear	Private	Domestic	Self Drilled	24/09/2009	12.00	12.00	Good	6.00	1.000		1966m	South
GW112397	10WA118646	Spear	Private	Domestic		16/04/2013	7.32	7.32	Good	3.05	1.000		1991m	North West
GW026364	10BL018269	Bore	Private	Industrial		01/08/1966	37.30	37.30	Good				1993m	South
GW072905		Bore	Private	Domestic		20/05/1995	10.00	10.00					1993m	South West
GW107765	10BL165609, 10WA114002	Spear	Private	Domestic		19/10/2005	12.00	12.00	Good	9.00	1.000		1997m	South
GW103774	10BL156600, 10WA113072	Bore		Domestic		12/03/1995	6.00			4.00			1998m	North West
GW023419	10BL017015, 10WA112858	Spear	Private	Domestic		07/08/1974					0.080		1998m	North West
GW114340	10BL604956	Bore	Other Govt	Monitoring	Total Drilling	12/09/2011	5.55	5.55		3.42			1998m	North

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

High Street, Randwick, NSW 2031

Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

Groundwater No	Drillers Log	Distance	Direction
GW109679	0.00m-0.10m CONCRETE 0.10m-1.00m FILL, MOIST,SAND, GRAVEL 1.00m-4.00m SAND, MOIST GREY BROWN 4.00m-6.00m SANDSTONE,ORANGE BROWN	222m	South
GW109680	0.00m-0.50m CONCRETE 0.50m-0.70m FILL,PALE,ORANGE 0.70m-1.50m SAND 1.50m-1.90m SANDSTONE 1.90m-3.90m SAND 3.90m-5.50m SANDSTONE,MOIST,PALE,GREY	232m	South
GW109681	0.00m-1.00m CONCRETE,FILL,MOIST ORANGE 1.00m-1.30m SAND 1.30m-2.10m SANDSTONE,MOIST,DARK 2.10m-3.50m SAND,WET,PALE 3.50m-6.00m SANDSTONE,SLIGHTLY MOIST,WEATHERED	239m	South
GW111847	0.00m-0.50m FILL,SLIGHTLY MOIST,PALE PINK,DENSE,SANDSTONE,SAND 0.50m-3.00m SAND,MOIST,PALE GREYS,BROWN,COARSE 3.00m-5.00m SAND,WET,PALE BROWN,MEDIUM GRAINED	243m	South
GW110524	0.00m-1.50m ROCK	267m	South West
GW017851	0.00m-4.57m Sand Water Supply	299m	South
GW111846	0.00m-0.20m BITUMEN 0.20m-0.50m FILL,MOIST,BROWN,DENSE,SAND,MINOR ASPHALT 0.50m-5.60m SAND,DENSE,MOIST,ORANGE,BROWN,SANDSTONE	303m	South
GW072463	0.00m-7.00m GREY SAND 7.00m-8.00m GREY CLAY 8.00m-10.50m BROWN SANDSTONE 10.50m-11.00m BROWN SOFT SANDSTONE 11.00m-17.00m GREY SANDSTONE 17.00m-17.50m GREY CLAY 17.50m-43.00m WHITE SANDSTONE	311m	South
GW111844	0.00m-0.15m FILL,MOIST,GREY BROWN,LOOSE,SAND 0.15m-3.00m SAND,MEDIUM DENSE,MOIST,GREY,M/GRAINED 3.00m-4.80m SAND,WET,PALE BROWN,COARSE GRAINED	340m	South
GW111845	0.00m-0.20m BITUMEN 0.20m-1.00m FILL, MOIST,ORANGE BROWN AND BLACK 1.00m-3.00m SAND MOIST,PALE,M/DENSE,COARSE	342m	South
GW110240	0.00m-0.50m TOPSOIL 0.50m-10.70m SAND COLOURED 10.70m-17.00m SOFT SANDSTONE 17.00m-150.00m HARD SANDSTONE	442m	South
GW108971	0.00m-0.30m TOPSOIL 0.30m-1.80m SANDY CLAY 1.80m-3.50m WHITE CLAY 3.50m-9.00m COLOURED SANDSTONE 9.00m-39.00m WHITE SANDSTONE 39.00m-41.00m BLACK SANDSTONE 41.00m-208.00m WHITE SANDSTONE 208.00m-216.00m GREY SHALE	522m	North East
GW104947	0.00m-0.30m TOPSOIL 0.30m-1.20m WHITE SAND 1.20m-1.40m ROCK COFFEE 1.40m-4.80m YELLOW SAND MG. 4.80m-5.00m YELLOW SILTY SAND	563m	South
GW108861	0.00m-0.10m TOPSOIL 0.10m-0.80m SANDY CLAY 0.80m-0.90m GREY CLAY 0.90m-4.00m RED YELLOW SANDSTONE 4.00m-114.00m WHITE SANDSTONE	647m	South

Groundwater No	Drillers Log	Distance	Direction
GW106098	0.00m-9.50m sand	707m	South West
GW100768	0.00m-17.39m UNCOSOLIDATED ALL SANDS	710m	South West
GW110856	0.00m-13.00m SAND 13.00m-13.20m ROCKS	722m	West
GW057008	0.00m-0.20m Topsoil 0.20m-3.00m Sand Grey 3.00m-13.50m Sand 13.50m-18.30m Sand Grey 13.50m-18.30m Peat Seams Clay Bands 18.30m-27.50m Sand Yellow 27.50m-30.00m Clay Grey	743m	North West
GW111568	0.00m-0.03m ASPHALT 0.03m-0.10m SAND AND GRAVEL 0.10m-1.20m SAND, YELLOW AND BROWN, F/GRAINED 1.20m-8.60m SAND, LIGHT YELLOW BROWN F/GRAINED	754m	West
GW111567	0.00m-0.03m ASPHALT 0.03m-0.10m SAND AND GRAVEL 0.10m-0.50m FILLING, DARK GREY SAND, TRACE OF GRAVEL 0.50m-0.70m FILLING, BROWN SAND 0.70m-4.00m SAND, ORANGE AND DARK BROWN, F/GRAINED 4.00m-4.50m SAND, LIGHT BROWN, F/GRAINED 4.50m-8.00m SAND, LIGHT YELLOW BROWN, F/GRAINED	765m	West
GW023445	0.00m-0.30m Sand 0.30m-3.35m Sand White Water Supply 3.35m-3.65m Loam 3.65m-4.26m Sand White	907m	South
GW025890	0.00m-0.30m Sand Grey 0.30m-10.05m Sand 10.05m-10.21m Sand Peaty 10.21m-10.97m Sand Dirty Wet 10.97m-12.19m Sand Wet 10.97m-12.19m Clay Bands 12.19m-13.71m Sand Dirty Wet 13.71m-15.24m Sand Water Supply 15.24m-16.76m Sand Grey Water Supply 16.76m-18.28m Sand Grey Peaty Water Supply 18.28m-19.81m Sand Grey Water Supply 19.81m-21.33m Sand Dark Brown Water Supply 19.81m-21.33m Clay Bands 21.33m-22.86m Sand Dark Brown Water Supply 22.86m-25.90m Sand Water Supply 25.90m-29.56m Sand Yellow Water Supply 29.56m-31.39m Sand Yellow Peat 29.56m-31.39m Clay Seams	908m	West
GW019634	0.00m-0.91m Sand Made Ground 0.91m-1.21m Ash Made Ground 1.21m-1.82m Sand Hard Cemented 1.82m-6.70m Sand Packed 6.70m-9.14m Sand Light Brown 9.14m-10.97m Sand Yellow 9.14m-10.97m Peat Bands 10.97m-20.11m Peat Some 10.97m-20.11m Sand Grey 20.11m-23.16m Sand Grey Coarse 20.11m-23.16m Peat Bands 23.16m-26.21m Sand Yellow 26.21m-31.39m Sand White 31.39m-32.61m Sand Yellow 31.39m-32.61m Clay Bands 32.61m-32.62m Peat	915m	West
GW072971		917m	South
GW104772	0.00m-0.50m TOP FILL 0.50m-2.10m LIGHT BROWN SAND 2.10m-9.70m YELLOW SAND 9.70m-9.90m BROWN CLAY 9.90m-14.20m YELLOW SAND 14.20m-15.20m SILTY SAND/CLAY 15.20m-16.80m BROWN SAND 16.80m-20.50m WHITE SILTY SAND/CLAY 20.50m-24.10m DECOMPOSED SANDSTONE 24.10m-25.00m L/YELLOW HARD SANDSTONE	917m	North West
GW102016	0.00m-1.00m Topsoil 1.00m-3.00m Fill material - ash and slag 3.00m-4.00m Light Brown Sand F.G., trace organic matter 4.00m-8.00m Light Brown Sand F.G. 8.00m-11.00m Yellow/Brown Sand F.G. 11.00m-14.00m Sand F.G. with thin peat stringers 14.00m-20.00m Light Brown Sand with trace peat 20.00m-33.00m White Sand F.G. 33.00m-35.00m Peat and Clay	937m	West

Groundwater No	Drillers Log	Distance	Direction
GW101682	0.00m-1.00m Topsoil 1.00m-3.00m Fill - ash and slag material 3.00m-12.00m Yellow/Brown Sand F.G. 12.00m-15.00m A/A with thin Peat and trace Clay 15.00m-17.00m Yellow/Brown Sand F.G. 17.00m-21.00m White Sand F.G. 21.00m-29.00m Light Brown Sand F.G. 29.00m-33.00m White Sand F.G. 33.00m-41.00m Peat, Clayey, black and oily	966m	West
GW019635	0.00m-2.43m Ash Clay 0.00m-2.43m Sand 2.43m-11.58m Sand Clay 11.58m-11.88m Peat Bands 11.88m-14.93m Peat Sandy Wet 14.93m-17.37m Sand Water Supply 17.37m-19.81m Sand White Water Supply 19.81m-21.33m Peat Sandy 21.33m-24.38m Sand Water Supply 24.38m-24.68m Peat Sandy Water Supply 24.68m-25.60m Sand White Coarse 25.60m-28.49m Sand Yellow Water Supply	977m	West
GW028827	0.00m-3.65m Sand Dirty 3.65m-11.58m Sand Light Brown Clean 11.58m-13.10m Sand Peaty Water Supply 13.10m-18.89m Sand Grey Water Supply 18.89m-26.51m Sand Dark Brown Peaty Water Supply 26.51m-27.73m Sand Grey Clayey Silty Water Supply 27.73m-32.61m Sand Light Grey Water Supply 32.61m-32.62m Clay Grey Stiff Water Supply	977m	West
GW101452	0.00m-6.00m SAND	982m	West
GW034992	0.00m-1.00m SANDY SOIL,GREY/BROWN 1.00m-2.00m SAND,F.G. LT. BROWN 2.00m-3.00m SAND 3.00m-4.00m SAND, F.G. YELLOW/BROWN 4.00m-7.00m SAND/F.G. 7.00m-12.00m SAND F.G. 12.00m-13.00m A/A WITH THIN PEAT BED 13.00m-14.00m A/A MIN OR PEAT 14.00m-17.00m SAND F.G. WITH YELLOW MIN.PEAT 17.00m-20.00m SAND F.G WH. 20.00m-21.00m A/A WITH PEAT 21.00m-27.00m SAND F.G WITH SL COARSE AT BASE 27.00m-29.00m SAND F.G WITH 10-20 % CLAY 29.00m-34.00m SAND F.G. WITH MIN CLAY AT COARSE 34.00m-36.50m PEAT MASSIVE, OILY 36.50m-38.00m CLAY WITH MIN PEAT 38.00m-41.00m PEAT & CLAY WITH 50:50	990m	West
GW026483	0.00m-4.87m Sand	1024m	South
GW072908		1036m	South
GW019612	0.00m-11.58m Sand Clay 11.58m-14.32m Sand Peaty Coloured 14.32m-15.24m Sand Wet 15.24m-19.50m Sand White Water Supply 19.50m-19.81m Peat 19.81m-20.42m Sand Peaty 20.42m-25.90m Sand Dark Brown Water Supply 25.90m-26.82m Sand Water Supply 26.82m-26.97m Clay 26.97m-31.39m Sand White Water Supply	1053m	West
GW104773	0.00m-0.50m TOP FILL 0.50m-2.10m LIGHT BROWN SAND 2.10m-9.70m YELLOW SAND 9.70m-9.90m BROWN CLAY 9.90m-14.20m YELLOW SAND 14.20m-15.20m SILTY SAND/CLAY 15.20m-16.80m BROWN SAND 16.80m-20.50m WHITE SILTY SAND 20.50m-24.10m DECOMPOSED SANDSTONE 24.10m-25.00m LIGHT YELLOW SANDSTONE	1089m	North West
GW107789	0.00m-7.00m sand	1089m	West
GW047543	0.00m-30.48m Sand Water Supply	1090m	North West
GW108422	0.00m-14.00m Sand	1094m	West
GW107651	0.00m-0.30m topsoil 0.30m-4.50m sand, yellow 4.50m-7.00m sand, grey	1103m	West

Groundwater No	Drillers Log	Distance	Direction
GW108036	0.00m-0.30m topsoil 0.30m-4.30m sand, yellow 4.30m-6.00m sand, white	1110m	West
GW106774	0.00m-8.23m sand, unconsolidated	1112m	West
GW105676	0.00m-9.15m sand, unconsolidated	1116m	West
GW105978	0.00m-8.23m sand, unconsolidated	1116m	West
GW106378	0.00m-0.30m topsoil 0.30m-2.20m sand, yellow 2.20m-2.60m sand, dark brown 2.60m-7.00m sand, yellow	1118m	West
GW100985	0.00m-5.18m UNCONSOLIDATED ALL SANDS	1119m	North
GW024677	0.00m-4.87m Sand Yellow Water Supply	1126m	West
GW047542	0.00m-0.61m Loam Sandy 0.61m-1.22m Sand 1.22m-2.13m Sand Hard Cemented 2.13m-7.62m Sand 7.62m-10.06m Sand 10.06m-12.19m Sand Peaty 12.19m-14.02m Sand White 14.02m-15.24m Sand White Clayey 15.24m-17.37m Sand White 17.37m-20.73m Sand Peaty 20.73m-21.34m Sand White 21.34m-22.25m Sand Peaty 22.25m-23.16m Sand White Peaty 23.16m-24.38m Sand Slightly Peaty 24.38m-30.18m Sand White Clean 30.18m-30.48m Clay	1127m	North West
GW047544	0.00m-2.20m Sand 2.20m-3.50m Sand Yellow 3.50m-4.50m Sand White Water Supply 4.50m-7.50m Sand Water Supply 7.50m-16.20m Sand Yellow Water Supply 16.20m-17.00m Sand White Peaty Clay Water Supply 17.00m-18.00m Sand White Water Supply 18.00m-22.00m Sand Yellow Water Supply 22.00m-23.00m Sandstone Red Soft Water Supply	1134m	North West
GW107390	0.00m-7.32m Sand, unconsolidated	1155m	South West
GW110535	0.00m-12.00m SAND	1159m	West
GW109813	0.00m-1.00m GRAVELLY SILTY SAND, LOOSE, DRY, DARK GREY, PIECES OF RUBBLE 1.00m-9.00m SAND, MOIST, L/GREY, DARK BROWN, D/ORANGE, CREAM, SATURATED	1160m	South West
GW104969	0.00m-6.00m SAND	1162m	North West
GW023612	0.00m-5.18m Sand Water Supply	1166m	South West
GW107638	0.00m-0.30m topsoil 0.30m-5.00m sand, yellow	1168m	West
GW109849	0.00m-0.20m CONCRETE 0.20m-1.00m FILL 1.00m-8.50m SAND	1173m	South West
GW107584	0.00m-7.50m sand	1178m	West
GW109810	0.00m-0.80m GRAVELLY SILTY SAND, FILL, LOOSE, DRY MOIST, DARK, BROWN, GREY 0.80m-9.00m SAND, MEDIUM DENSE, V/DARK BROWN/BLACK BECOMES SATURATED	1178m	South West
GW105754	0.00m-5.18m sand, unconsolidated	1181m	West
GW102222	0.00m-9.50m Sand	1182m	South
GW109812	0.00m-0.10m CONCRETE 0.10m-0.30m SILTY SAND, LOOSE, DRY, BROWN/GREY, SANDSTONE BRICK PIECES 0.30m-9.00m SAND, LOOSE, DRY, MOIST, ORANGE, BECOMES SATURATED	1183m	South West
GW109848	0.00m-0.20m CONCRETE 0.20m-1.70m FILL 1.70m-8.70m SAND	1184m	South West
GW106554	0.00m-0.30m topsoil 0.30m-4.20m sand, brown 4.20m-6.00m sand, yellow	1187m	North West

Groundwater No	Drillers Log	Distance	Direction
GW109809	0.00m-0.20m CONCRETE 0.20m-0.60m GRAVELLY SILTY SAND, LOOSE, DRY 0.60m-9.00m SAND, MEDIUM DENSE/YELLOW, ORANGE, GRADES TO CREAM	1188m	South West
GW109811	0.00m-0.30m SILTY SAND, DRY, BROWN, GREY, MINOR GLASS 0.30m-9.00m SAND, DRY, L/GREY, BROWN/COPPER, MOIST, BECOMES SATURATED	1189m	South West
GW013339	0.00m-16.45m Sand Nominal Water Supply 0.00m-16.45m Mud Marine Nominal	1191m	West
GW023179	0.00m-1.21m Sand 1.21m-1.52m Sand Hard Cemented 1.52m-7.62m Sand Water Supply	1191m	West
GW108674	0.00m-8.00m sand	1191m	West
GW109847	0.00m-1.00m FILL 1.00m-8.50m SAND	1194m	South West
GW026468	0.00m-0.91m Topsoil 0.91m-3.04m Sand Hard Cemented 3.04m-6.70m Clay Sandy 6.70m-7.31m Peat Wood 7.31m-9.14m Sand White Clean Water Supply 9.14m-10.05m Sand Yellow Clean Water Supply 10.05m-14.93m Sand White Clean Water Supply 14.93m-15.24m Sand Yellow Water Supply 15.24m-15.54m Sand Grey Water Supply 15.54m-19.66m Sand Grey Pete Water Supply 19.66m-19.67m Peat Water Supply	1198m	West
GW105625	0.00m-1.00m SILTY SAND 1.00m-6.50m L/BROWN SAND 6.50m-8.00m SAND, SMALL CLAY BANDS 8.00m-10.00m W. L/BROWN SAND 10.00m-13.50m W. CREAM SAND 13.50m-13.80m DIRTY YELLOW SAND 13.80m-14.00m RED CLAY	1203m	North
GW107728	0.00m-7.00m sand	1206m	West
GW106797	0.00m-7.00m sand	1207m	West
GW101455	0.00m-6.00m SAND	1210m	West
GW101453	0.00m-6.00m SAND	1211m	West
GW108225	0.00m-14.00m sand	1256m	South West
GW106087	0.00m-7.63m sand, unconsolidated	1264m	North
GW108507	0.00m-8.00m sand	1264m	South West
GW106671	0.00m-9.50m sand	1269m	North
GW106078	0.00m-7.32m sand, unconsolidated	1276m	North
GW106973	0.00m-0.30m Topsoil 0.30m-1.50m Sand, brown 1.50m-4.50m Sand, yellow 4.50m-6.00m Sand, grey	1280m	West
GW107641	0.00m-7.50m sand	1283m	West
GW105730	0.00m-8.00m sand	1284m	North
GW107289	0.00m-14.03m Sand, unconsolidated	1286m	South
GW106076	0.00m-5.79m SAND, UNCONSOLIDATED	1291m	West
GW106488	0.00m-6.10m sand	1292m	West
GW107614	0.00m-0.30m topsoil 0.30m-4.20m sand, yellow 4.20m-6.00m sand, dark yellow	1293m	West
GW107342	0.00m-5.18m Sand, unconsolidated	1294m	North West
GW072219		1295m	North
GW101219	0.00m-4.88m Unconsolidated - all sand.	1297m	West

Groundwater No	Drillers Log	Distance	Direction
GW110786	0.00m-8.00m SAND	1302m	West
GW101225	0.00m-6.00m Unconsolidated - all sand.	1303m	West
GW101699	0.00m-7.00m Sand	1303m	North
GW103051	0.00m-5.79m UNCONSOLIDATED ALL SAND	1304m	South West
GW101456	0.00m-6.00m SAND	1305m	West
GW103644	0.00m-7.00m SAND	1308m	West
GW102598	0.00m-6.00m SAND	1311m	West
GW101458	0.00m-6.00m SAND	1314m	West
GW106862	0.00m-7.63m Sand, unconsolidated	1315m	West
GW102611	0.00m-6.00m SAND	1316m	West
GW107653	0.00m-9.50m sand	1317m	West
GW106249	0.00m-6.00m sand	1326m	West
GW072974		1328m	South
GW108442	0.00m-8.00m Sand	1328m	West
GW107335	0.00m-7.00m sand	1330m	West
GW107296	0.00m-6.00m sand	1336m	South West
GW023290	0.00m-3.96m Sand Water Supply 3.96m-4.26m Sand Hard Cemented	1339m	North West
GW101157	0.00m-6.10m UNCONSOLIDATED, ALL CLEAN SAND	1340m	South West
GW025781	0.00m-4.57m Sand Water Supply	1347m	West
GW106661	0.00m-15.25m sand, unconsolidated	1364m	South
GW111438	0.00m-6.10m UNCONSOLIDATED ALL SAND	1365m	South West
GW106296	0.00m-6.10m sand	1369m	West
GW107142	0.00m-17.05m sand	1375m	West
GW107129	0.00m-12.81m Sand, unconsolidated	1376m	West
GW075021	0.00m-2.00m SAND,FINE GRAINED,WHITE 2.00m-6.00m SAND,MED GRAINED,YELLOW BROWN 6.00m-7.00m SILTY SAND 7.00m-13.00m SAND,MED TO FINE GRAINED 13.00m-19.00m SAND,VERY FINE GRAINED 19.00m-20.50m PEAT,FIRM 20.50m-24.00m PEAT FIRM,BLACK 24.00m-25.00m SAND,WHITE 25.00m-32.00m PEATY SAND 32.00m-34.00m CLAYEY SAND,FINE GRAINED 34.00m-35.00m SAND,MED GRAINED 35.00m-41.00m SILTY SAND,GREY WITH SILT 41.00m-44.00m SANDY CLAY,FINE TO MED GRAINED 44.00m-44.50m SANDY CLAY	1379m	West
GW107612	0.00m-12.81m Sand, unconsolidated	1379m	West
GW106297	0.00m-8.23m sand	1383m	West
GW106005	0.00m-12.29m sand	1390m	South West
GW106386	0.00m-7.32m mud sand	1392m	South West
GW106766	0.00m-0.30m topsoil 0.30m-4.50m sand, yellow 4.50m-6.00m sand, brown	1392m	West
GW101967	0.00m-7.00m Sand	1403m	West

Groundwater No	Drillers Log	Distance	Direction
GW108229	0.00m-17.00m sand	1403m	West
GW105438	0.00m-7.63m UNCONSOLIDATED ALL SANDS	1406m	West
GW110874	0.00m-7.93m UNCONSOLIDATED ALL SANDS	1409m	West
GW105771	0.00m-7.01m sand, unconsolidated	1410m	South West
GW114951	0.00m-0.50m TOPSOIL 0.50m-4.00m SAND YELLOW 4.00m-6.00m SAND WHITE	1410m	West
GW105567	0.00m-0.30m TOPSOIL 0.30m-2.30m BROWN SAND 2.30m-7.00m WHITE SAND	1416m	West
GW072280	0.00m-8.00m SAND	1417m	West
GW105630	0.00m-5.18m sand, unconsolidated	1417m	West
GW106366	0.00m-5.81m sand	1417m	West
GW111004	0.00m-13.12m UNCONSOLIDATED ALL SAND	1418m	West
GW111445	0.00m-8.00m SAND	1421m	West
GW107093	0.00m-12.43m UNCONSOLIDATED ALL SANDS	1428m	West
GW110342	0.00m-0.20m CONCRETE 0.20m-0.60m FILL 0.60m-4.00m SAND	1440m	North West
GW108596	0.00m-16.00m sand	1442m	South East
GW110337	0.00m-1.00m FILL 1.00m-4.00m SAND	1442m	North West
GW110338	0.00m-0.50m FILL 0.50m-1.00m FILL POSSIBLY NATURAL SAND 1.00m-4.00m SAND	1442m	North West
GW105551	0.00m-7.63m UNCONSOLIDATED ALL SANDS	1444m	West
GW110339	0.00m-0.50m FILL 0.50m-4.00m SAND	1445m	North West
GW108660	0.00m-16.00m sand	1448m	West
GW110336	0.00m-0.50m FILL 0.50m-1.90m FILL,(POSSIBLY NATURAL) 1.90m-4.00m SAND	1449m	North West
GW110341	0.00m-0.20m CONCRETE 0.20m-0.30m FILL 0.30m-4.00m SAND	1452m	North West
GW075018	0.00m-0.50m FILLING MATERIAL 0.50m-5.00m SAND,MED GRAINED YELLOW 5.00m-15.20m SAND,FINE GRAINED YELLOW 15.20m-19.50m SILTY SAND FINE GRAINED,GREY 19.50m-26.00m SANDY SILT 26.00m-26.50m SAND,MED GRAINED 26.50m-27.50m PEATY SAND 27.50m-29.00m CLAYEY SAND 29.00m-32.00m CLAY,SOFT,FINE 32.00m-39.50m SANDY CLAY,SOFT,MED TO FINE GRAINED 39.50m-43.00m SANDY SILT 43.00m-44.00m SANDY CLAY,SOFT	1459m	North West
GW110335	0.00m-0.20m CONCRETE 0.20m-0.80m FILL 0.80m-4.00m SAND	1464m	North West
GW110340	0.00m-0.80m FILL 0.80m-4.00m SAND	1464m	North West
GW107431	0.00m-7.63m Sand, unconsolidated	1465m	North West
GW107327	0.00m-0.30m topsoil 0.30m-4.50m sand, yellow 4.50m-6.00m sand, white	1478m	West

Groundwater No	Drillers Log	Distance	Direction
GW108700	0.00m-7.93m sand	1481m	West
GW023117	0.00m-1.21m Sand 1.21m-1.52m Sand Hard Cemented 1.52m-6.09m Sand Water Supply	1484m	West
GW107444	0.00m-7.00m sand	1484m	West
GW107154	0.00m-7.93m sand	1486m	West
GW107417	0.00m-0.30m topsoil 0.30m-5.50m sand, yellow 5.50m-7.00m sand, brown	1488m	West
GW029637	0.00m-4.41m Sand Water Supply	1493m	West
GW104890	0.00m-10.50m SAND,BROWN TO GREY 10.50m-13.50m SAND,L/GREY 13.50m-13.60m SANDY CLAY 13.60m-17.00m SAND/L/GREY 17.00m-21.00m SAND L/GREY 21.00m-22.00m SAND/PEAT 22.00m-25.80m L/GREY	1495m	North West
GW023996	0.00m-3.04m Sand White 3.04m-3.65m Sand Black Water Supply 3.65m-4.57m Sand White	1500m	West
GW107906	0.00m-7.50m sand	1501m	West
GW108428	0.00m-8.00m Sand	1514m	North West
GW110448	0.00m-9.00m UNCONSOLIDATE ALL SANDS	1514m	West
GW108448	0.00m-16.00m Sand	1515m	South
GW107668	0.00m-12.81m Sand, unconsolidated	1517m	West
GW017473	0.00m-7.62m Sand	1518m	West
GW106237	0.00m-9.00m sand	1519m	West
GW023138	0.00m-4.87m Sand Water Supply	1520m	West
GW108595	0.00m-8.00m sand	1520m	South West
GW108472	0.00m-16.00m sand	1527m	South
GW105717	0.00m-0.30m topsoil 0.30m-4.20m sand, light brown 4.20m-6.00m sand, yellow	1528m	West
GW023529	0.00m-0.91m Sand Grey 0.91m-6.70m Sand White Water Supply	1531m	South
GW053600	0.00m-2.50m Sand White 2.50m-13.00m Sand Yellow 13.00m-19.60m Sand White 19.60m-23.00m Sand White Peaty 23.00m-24.00m Peat Clay 24.00m-26.00m Sand Peaty 26.00m-30.00m Sand Yellow 30.00m-30.50m Clay Grey	1535m	South East
GW105431	0.00m-6.00m SAND BROWN 6.00m-30.00m SAND WHITE	1535m	South East
GW104966	0.00m-6.10m UNCONSOLIDATED ALL SAND	1537m	West
GW107336	0.00m-7.00m sand	1546m	North West
GW110423	0.00m-12.00m UNCONSOLIDATED ALL SANDS	1551m	South
GW106178	0.00m-0.30m topsoil 0.30m-5.00m sand,yellow 5.00m-7.00m sand, yellow with some shells	1555m	South West
GW023659	0.00m-3.65m Soil Clay 3.65m-4.87m Sand Yellow Water Supply	1559m	South West

Groundwater No	Drillers Log	Distance	Direction
GW023572	0.00m-3.65m Sand Water Supply	1562m	West
GW024367	0.00m-2.43m Sand 2.43m-4.26m Clay Sandy Water Supply	1564m	North West
GW101162	0.00m-6.10m UNCONSOLIDATED. ALL CLEAN SAND.	1565m	West
GW102008	0.00m-6.10m Sand	1572m	West
GW106875	0.00m-5.79m Sand, unconsolidated	1572m	West
GW025540	0.00m-0.91m Sand Black 0.91m-4.87m Sand White Water Supply	1574m	South
GW106752	0.00m-9.50m sand	1574m	South
GW108822	0.00m-14.00m sand	1574m	South
GW101883	0.00m-10.00m Sand	1575m	South
GW105969	0.00m-9.46m sand, unconsolidated	1584m	West
GW107514	0.00m-7.50m sand	1592m	South West
GW107593	0.00m-12.20m sand	1593m	West
GW024024	0.00m-0.60m Sand Grey 0.60m-6.09m Sand White Water Supply	1594m	South
GW107804	0.00m-13.42m Sand, unconsolidated	1595m	West
GW075025	0.00m-2.00m SAND,COFFEE BROWN 2.00m-5.00m SAND,MED GRAINED,YELLOW 5.00m-7.50m SAND,FINE,WHITE 7.50m-8.00m PEAT,FINE,BLACK 8.00m-12.00m PEATY SAND,DARK BROWN 12.00m-18.00m SILTY SAND,FINE GRAINED 18.00m-24.50m SAND,MED. COARSE 24.50m-25.50m BEDROCK	1604m	South West
GW106132	0.00m-10.37m sand, unconsolidated	1608m	West
GW100831	0.00m-6.10m UNCONSOLIDATED ALL SAND	1614m	West
GW106146	0.00m-7.32m sand, unconsolidated	1623m	West
GW102294	0.00m-10.00m Sand	1625m	South
GW106854	0.00m-7.00m sand	1628m	North East
GW073459	0.00m-7.02m Unconsolidated Sand	1629m	West
GW106106	0.00m-7.01m sand, unconsolidated	1629m	West
GW111465	0.00m-6.00m YELLOW SAND 6.00m-9.00m GREY SAND	1631m	West
GW108394	0.00m-16.00m SAND	1633m	South
GW024206	0.00m-1.21m Topsoil Grey 1.21m-5.48m Sand Yellow Water Supply	1635m	South
GW107447	0.00m-8.23m Sand, unconsolidated	1638m	North East
GW110780	0.00m-23.00m SAND	1639m	West
GW109922	0.00m-4.58m UNCONSOLIDATED ALL SANDS	1642m	South West
GW047125	0.00m-0.61m Made Ground 0.61m-3.05m Sand Yellow 3.05m-3.96m Peat 3.96m-5.79m Sand Grey Water Supply 5.79m-15.85m Sand White Water Supply 15.85m-18.59m Sand Water Supply 18.59m-18.75m Wood 18.75m-20.73m Sand Water Supply 20.73m-24.38m Sandstone Water Supply	1645m	South West
GW103325	0.00m-7.00m SAND	1646m	West
GW108640	0.00m-7.50m sand	1646m	South West

Groundwater No	Drillers Log	Distance	Direction
GW108705	0.00m-13.72m sand	1646m	West
GW023998	0.00m-14.63m Sand Yellow 14.63m-15.39m Sand Grey Clean 15.39m-15.54m Sand Hard Cemented 15.54m-17.06m Sand Dark Brown Peaty 17.06m-19.50m Sand Grey 19.50m-24.38m Sand Light Brown Water Supply 24.38m-25.29m Sand Slightly Peaty Water Supply 25.29m-29.10m Sand Light Brown Clean Water Supply 29.10m-30.48m Sand Grey Clean Water Supply 30.48m-34.74m Sand Clean Water Supply 34.74m-35.96m Sand Slightly Clayey Water Supply 35.96m-35.98m Sandstone	1647m	West
GW072994		1649m	South West
GW107578	0.00m-16.47m Sand, unconsolidated	1649m	South
GW104525	0.00m-0.50m FILL S/S CEMENT 0.50m-4.50m SAND/ GREY TO BROWN 4.50m-4.90m SANDY PEAT / D/BROWN 4.90m-16.80m SAND:YELLOW BROWN 16.80m-17.65m PEAT D/ BROWN WITH CEMENTED SAND	1650m	North West
GW108286	0.00m-15.25m sand	1658m	West
GW106915	0.00m-7.50m Sand	1666m	South West
GW023841	0.00m-4.57m Sand Water Supply	1667m	South
GW104646	0.00m-10.00m SAND	1678m	West
GW105770	0.00m-7.01m sand, unconsolidated	1678m	West
GW110193	0.00m-24.00m UNCONSOLIDATE ALL SAND	1678m	West
GW104992	0.00m-9.00m SAND	1680m	South
GW111248	0.00m-2.00m TOPSOIL 2.00m-16.00m SAND 16.00m-17.00m PEAT AND COAL 17.00m-30.00m SAND	1684m	South West
GW106031	0.00m-5.79m sand, unconsolidated	1687m	West
GW101783	0.00m-5.00m Sand	1694m	West
GW108837	0.00m-7.50m sand	1701m	West
GW046836	0.00m-6.10m Sand White 6.10m-7.92m Sand Yellow 7.92m-10.97m Sand Some Traces Clay Fine 10.97m-14.63m Sand White 14.63m-16.46m Sand 16.46m-18.29m Sand White 18.29m-18.90m Sand Water Supply 18.90m-21.95m Sand White Water Supply 21.95m-24.08m Sand Dirty Water Supply 24.08m-24.38m Sand White Water Supply 24.38m-25.91m Sand Water Supply 25.91m-35.97m Sand White Water Supply 35.97m-37.49m Sand Some Clay 37.49m-37.80m Clay Grey	1706m	South West
GW110778	0.00m-23.00m SAND	1708m	West
GW111307	0.00m-0.10m SOIL 0.10m-18.00m SAND	1715m	West
GW112525	0.00m-4.50m SAND LIGHT BROWN 4.50m-9.00m SAND YELLOW 9.00m-17.00m SAND LIGHT BROWN 17.00m-21.50m SAND GREY 21.50m-26.00m SAND LIGHT BROWN 26.00m-30.00m SAND WHITE	1718m	South
GW108433	0.00m-12.81m Sand, unconsolidated	1730m	West
GW107132	0.00m-14.64m Sand, unconsolidated	1733m	South West
GW106069	0.00m-7.01m sand, unconsolidated	1735m	West

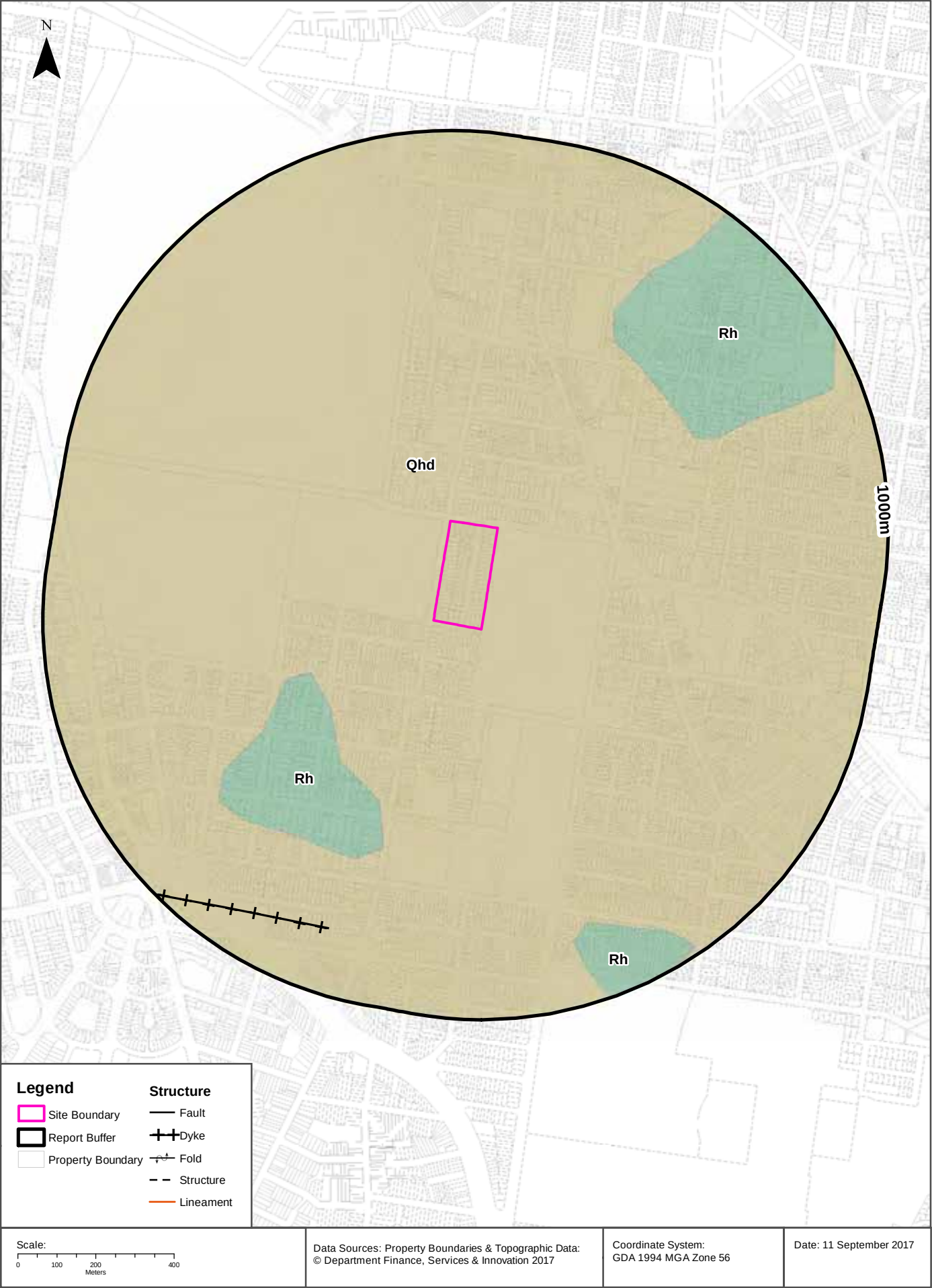
Groundwater No	Drillers Log	Distance	Direction
GW111696	0.00m-22.00m SAND	1735m	West
GW027616	0.00m-0.91m Sand Made Ground 0.91m-1.82m Sand Hard Cemented 1.82m-3.65m Sand White 3.65m-5.48m Sand White Some Clay 5.48m-8.22m Sand 8.22m-10.05m Sand Slightly Peaty Water Supply 10.05m-12.19m Sand Yellow Some Clay Water Supply 12.19m-27.43m Sand White Water Supply 27.43m-32.00m Sand Water Supply 32.00m-32.61m Sandstone Decomposed	1736m	South
GW106863	0.00m-16.47m Sand, unconsolidated	1738m	South West
GW104984	0.00m-9.00m SAND	1743m	West
GW026584	0.00m-6.09m Sand Grey	1744m	South
GW107137	0.00m-7.63m Sand, unconsolidated	1747m	North West
GW107738	0.00m-0.30m topsoil 0.30m-4.50m sand, yellow 4.50m-7.00m sand, white	1748m	West
GW029355	0.00m-2.43m Sand 2.43m-2.74m Clay Sand 2.74m-3.20m Sand Hard Cemented 3.20m-11.27m Sand 11.27m-14.02m Sand Clayey 14.02m-14.32m Sand Water Supply 14.32m-15.24m Sand White Water Supply 15.24m-28.95m Sand Water Supply 28.95m-28.97m Sandstone	1751m	South
GW023991	0.00m-1.52m Sand White 1.52m-3.04m Sand Hard Cemented 3.04m-5.79m Sand Yellow Water Supply	1752m	South
GW107430	0.00m-9.15m Sand, unconsolidated	1752m	North West
GW107534	0.00m-6.10m Sand, unconsolidated	1753m	North West
GW104928	0.00m-0.20m TOPSOIL 0.20m-4.50m LIGHT BROWN SAND 4.50m-9.00m LIGHT YELLOW SAND	1763m	North West
GW109490	0.00m-0.30m TOPSOIL 0.30m-13.00m YELLOW SAND 13.00m-18.00m WEATHERED SAND	1765m	West
GW104991	0.00m-9.00m SAND	1768m	West
GW101072	0.00m-10.00m Sand	1774m	South
GW108048	0.00m-16.16m sand	1780m	South West
GW023270	0.00m-3.65m Sand 3.65m-3.74m Sand Hard Cemented 3.74m-5.18m Sand White 5.18m-7.01m Sand Water Supply	1781m	South West
GW027462	0.00m-0.60m Topsoil Sandy 0.60m-1.21m Sand 1.21m-2.13m Sand White 2.13m-6.40m Sand 6.40m-8.83m Sand Dark Brown Peaty 8.83m-13.10m Sand Water Supply 13.10m-14.93m Sand Grey Water Bearing 14.93m-15.84m Sand Water Supply 15.84m-16.76m Sand Clay Seams Water Supply 16.76m-19.50m Sand Water Supply 19.50m-20.72m Peat Fossils:wood	1782m	North West
GW108046	0.00m-15.86m sand	1783m	South West
GW105999	0.00m-10.68m sand, unconsolidated	1791m	North West
GW072922	0.00m-6.70m Unconsolidated Sand	1794m	North West
GW108296	0.00m-16.00m sand	1797m	West

Groundwater No	Drillers Log	Distance	Direction
GW107348	0.00m-13.42m Sand, unconsolidated	1813m	North West
GW101069	1.00m-10.00m sand	1819m	South
GW028289	0.00m-6.09m Sand Water Supply	1827m	West
GW107391	0.00m-7.01m Sand, unconsolidated	1829m	North West
GW019633	0.00m-4.57m Sand 4.57m-6.09m Sand Wet 6.09m-7.31m Sand Peaty 7.31m-10.97m Sand 10.97m-11.58m Sand Dark Brown 11.58m-14.63m Sand 14.63m-14.93m Clay Sandy 14.93m-16.15m Sand 16.15m-16.76m Clay Peaty 16.76m-18.28m Sand 18.28m-18.89m Peat Bands 18.89m-19.50m Clay Sandy 19.50m-20.72m Sand White 20.72m-21.94m Sand 21.94m-22.55m Sand Yellow 22.55m-24.99m Sand Gravel 24.99m-29.87m Sand Clean 29.87m-33.52m Sand White Clean 33.52m-34.13m Sand Yellow 34.13m-35.05m Sand Peaty	1830m	South West
GW108498	0.00m-18.00m Sand	1832m	South
GW107404	0.00m-0.30m TOPSOIL 0.30m-2.30m GREY SAND 2.30m-3.40m BROWN SAND 3.40m-6.10m YELLOW SAND 6.10m-13.20m BROWN SILTY SAND 13.20m-24.50m WHITE SAND 24.50m-29.20m GREY SAND 29.20m-30.00m SILTY GREY SAND 30.00m-31.50m YELLOW SILTY SAND 31.50m-32.00m YELLOW SANDY CLAY	1838m	South
GW107740	0.00m-11.50m Sand, unconsolidated	1846m	South East
GW111247	0.00m-1.00m TOPSOIL 1.00m-3.00m SILT 3.00m-19.00m SAND 19.00m-20.00m PEAT/COAT 20.00m-36.00m SAND	1852m	South West
GW105964	0.00m-9.50m sand	1853m	North West
GW107594	0.00m-10.00m sand	1855m	South
GW107385	0.00m-9.50m Sand	1861m	South
GW038009	0.00m-3.65m Sand Rubble 3.65m-4.87m Sand Hard Cemented 4.87m-8.53m Sand 8.53m-10.97m Sand 8.53m-10.97m Clay Sandy Bands 10.97m-12.19m Sand Clean 12.19m-21.33m Sand Clean Water Supply 21.33m-22.86m Clay Sandy	1863m	North West
GW027615	0.00m-0.91m Sand Hard Cemented 0.91m-9.14m Sand 9.14m-11.27m Sand Grey 11.27m-13.71m Sand Yellow 13.71m-15.24m Sand White 15.24m-16.15m Sand Clayey Peaty 16.15m-19.20m Sand Grey 19.20m-19.50m Sand Clayey 19.50m-25.60m Sand 25.60m-35.66m Sand White 35.66m-36.27m Sand 35.66m-36.27m Clay Traces 36.27m-36.28m Clay	1867m	South
GW060170	0.00m-3.00m Sand White Peaty Water Supply 3.00m-14.00m Sand Light Brown Water Supply 14.00m-14.50m Peat Water Supply 14.50m-20.00m Sand White Peaty Water Supply	1871m	South West

Groundwater No	Drillers Log	Distance	Direction
GW075017	0.50m-3.00m SAND, MED TO FINE GRAINED,YELLOW 3.00m-4.00m PEATY SAND 4.00m-4.50m PEAT,FINE 4.50m-13.00m SILTY SAND 13.00m-18.00m SAND,DENSE,FINE 18.00m-19.00m PEATY SAND 19.00m-21.50m PEAT,SANDY PEAT,BLACK 21.50m-22.00m SAND 22.00m-23.00m PEAT, FIRM,BLACK 23.00m-27.00m SILTY SAND 27.00m-28.00m SANDY CLAY 28.00m-28.50m WEATHERED ROCK 28.50m-29.50m BED ROCK	1874m	West
GW029354	0.00m-1.52m Sand 1.52m-2.43m Sand Hard Cemented 2.43m-6.70m Sand 6.70m-7.62m Sand Slightly Peaty 7.62m-14.63m Sand Water Supply 14.63m-17.06m Sand White Water Supply 17.06m-18.28m Clay Sand 18.28m-23.46m Sand Yellow Water Supply 23.46m-32.91m Sand White Water Supply 32.91m-34.13m Sand Yellow Water Supply 34.13m-34.74m Sand 34.13m-34.74m Clay Yellow 34.74m-36.57m Sand Yellow Water Supply 36.57m-37.79m Sand Yellow Clayey	1876m	South
GW107741	0.00m-9.00m sand	1885m	West
GW106945	0.00m-9.50m sand	1886m	West
GW106021	0.00m-16.47m sand, unconsolidated	1890m	West
GW111600	0.00m-20.00m SANDS,FINE,VERY FINE,DK GREY IN COLOUR	1891m	South West
GW111624	0.00m-31.00m BOTANY SANDS 31.00m-36.00m HAWKESBURY SANDSTONE	1891m	South West
GW013436	0.00m-4.57m Sand 4.57m-9.14m Sand Wet 9.14m-12.50m Sand Water Supply 12.50m-13.11m Sand Clay Bands Water Supply 13.11m-17.98m Sand Water Supply 17.98m-21.03m Sand Clay Bands Water Supply 21.03m-22.56m Sand Yellow Water Supply 22.56m-34.29m Sand Water Supply	1892m	South
GW110542	0.00m-1.00m SAND AND FILL 1.00m-7.00m SAND L/BROWN 7.00m-13.00m SAND L/GREY 13.00m-17.00m SAND YELLOW 17.00m-20.00m SAND GREY 20.00m-23.00m SAND D/GREY 23.00m-27.50m SAND CREAM 27.50m-28.00m SAND AND CLAY	1895m	North
GW106028	0.00m-0.30m topsoil 0.30m-3.00m sand, yellow 3.00m-5.00m sand, brown	1896m	North West
GW111238	0.00m-12.00m SAND	1901m	West
GW107643	0.00m-0.30m topsoil 0.30m-3.50m sand, yellow 3.50m-5.50m sand, brown 5.50m-7.00m sand, fine grey	1918m	West
GW105040	0.00m-8.00m SAND	1928m	North West
GW110538	0.00m-8.00m SAND	1930m	North West
GW100755	0.00m-0.30m TOPSOIL 0.30m-0.70m BROWN SAND 0.70m-4.50m WHITE SAND 4.50m-4.80m COFFEE ROCK 4.80m-15.20m WHITE SAND 15.20m-15.40m BLACK PEAT 15.40m-19.00m WHITE SAND 19.00m-19.50m GREY CLAY 19.50m-19.50m SANDSTONE	1939m	West

Groundwater No	Drillers Log	Distance	Direction
GW017651	0.00m-0.30m Topsoil 0.30m-0.91m Sand Yellow Hard Cemented 0.91m-3.65m Sand Yellow Clay 3.65m-6.09m Sand White Clean Water Supply 6.09m-9.75m Sand Packed Dry 9.75m-15.84m Sand White Clean Water Supply 15.84m-16.15m Clay Sandy Bands 16.15m-17.37m Sand White Clay 17.37m-17.67m Peat 17.67m-18.28m Sand Grey Clay 18.28m-19.20m Peat Clay Bands 19.20m-20.72m Peat Sand 20.72m-21.33m Sand Coarse Hard Cemented Clay 21.33m-23.62m Sand White Clay 23.62m-25.29m Sand Peaty clay 25.29m-29.26m Sand White	1952m	West
GW105492	0.00m-6.71m UNCONSOLIDATED ALL SANDS	1953m	West
GW111150	0.00m-12.00m SAND	1956m	South
GW110522	0.00m-0.50m (Unknown) 0.50m-12.00m (Unknown)	1965m	South
GW110439	0.00m-0.50m SOIL 0.50m-12.00m SAND CLEAN	1966m	South
GW112397	0.00m-7.32m UNCONSOLIDATED ALL SAND	1991m	North West
GW026364	0.00m-1.06m Sand Dark Grey 1.06m-1.44m Sand White 1.44m-1.52m Sand Hard Cemented 1.52m-7.62m Sand Water Supply 7.62m-13.71m Sand White 13.71m-16.45m Sand Clay 16.45m-16.76m Sand 16.45m-16.76m Gravel 16.76m-17.98m Sand Slightly Clay 17.98m-18.28m Clay Sandy 18.28m-23.46m Sand White 23.46m-27.43m Sand Cream 27.43m-31.69m Sand White 31.69m-34.13m Clay Yellow Sandy 34.13m-36.57m Sand Yellow 36.57m-37.18m Sand Dirty 37.18m-37.33m Sandstone	1993m	South
GW072905		1993m	South West
GW107765	0.00m-12.00m Sand, unconsolidated	1997m	South
GW114340	0.00m-5.55m SAND	1998m	North

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp
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Geology

High Street, Randwick, NSW 2031

Geological Units

What are the Geological Units onsite?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qhd	Medium to fine-grained marine sand with podsols				Quaternary		Sydney	1:100,000

What are the Geological Units within the dataset buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qhd	Medium to fine-grained marine sand with podsols				Quaternary		Sydney	1:100,000
Rh	Medium to coarse grained quartz sandstone, very minor shale and laminate lenses				Triassic		Sydney	1:100,000

Geological Structures

What are the Geological Structures onsite?

Feature	Name	Description	Map Sheet	Dataset
No features				1:100,000

What are the Geological Structures within the dataset buffer?

Feature	Name	Description	Map Sheet	Dataset
Dyke			Sydney	1:100,000

Geological Data Source : NSW Department of Industry, Resources & Energy

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Naturally Occurring Asbestos Potential

High Street, Randwick, NSW 2031

Naturally Occurring Asbestos Potential

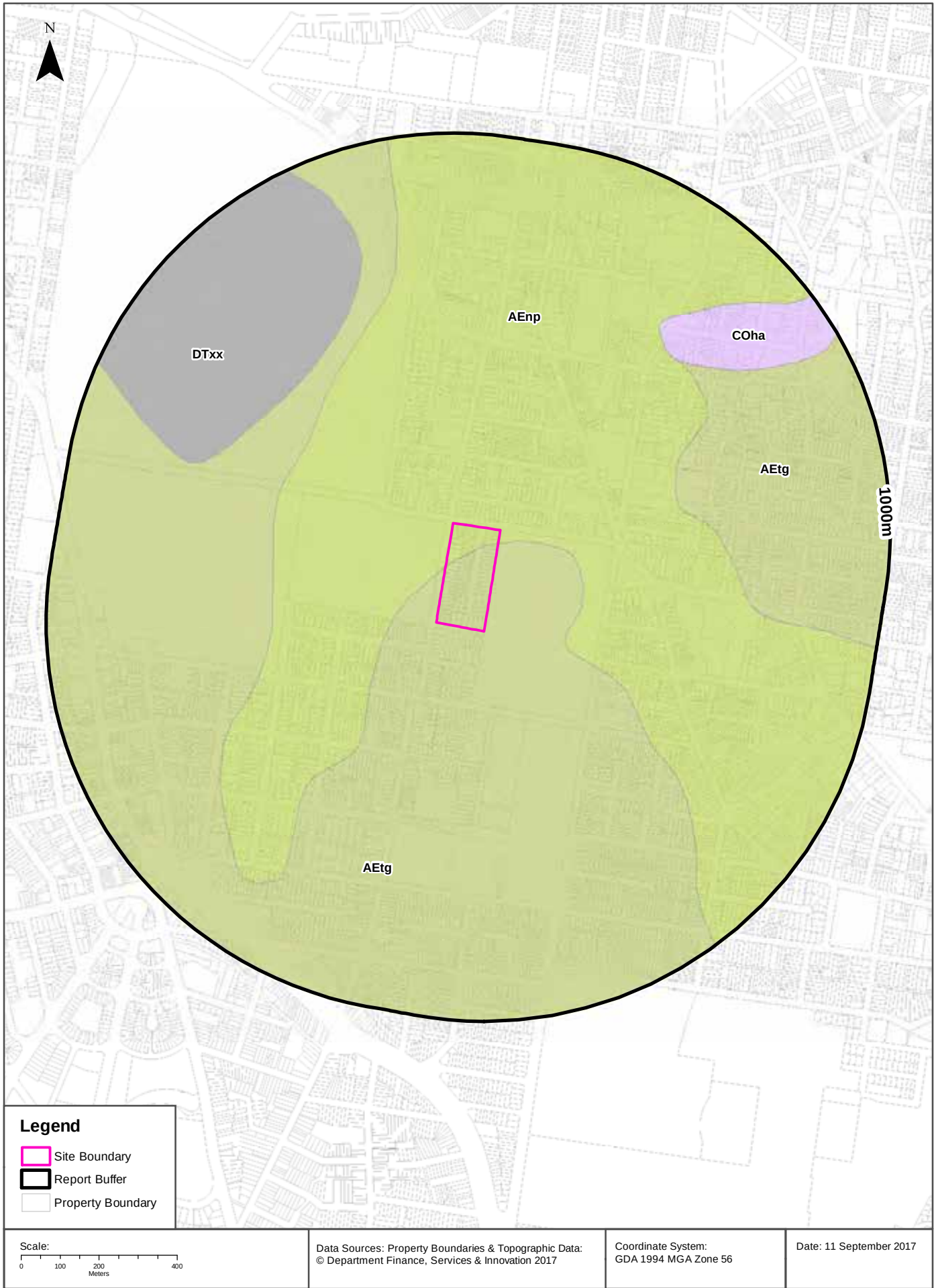
Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Mining Subsidence District Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Soil Landscapes

High Street, Randwick, NSW 2031



Soils

High Street, Randwick, NSW 2031

Soil Landscapes

What are the onsite Soil Landscapes?

Soil Code	Name	Group	Process	Map Sheet	Scale
AEnp	NEWPORT		AEOLIAN	Sydney	1:100,000
AEtg	TUGGERAH		AEOLIAN	Sydney	1:100,000

What are the Soil Landscapes within the dataset buffer?

Soil Code	Name	Group	Process	Map Sheet	Scale
AEnp	NEWPORT		AEOLIAN	Sydney	1:100,000
AEtg	TUGGERAH		AEOLIAN	Sydney	1:100,000
COha	HAWKESBURY		COLLUVIAL	Sydney	1:100,000
DTxx	DISTURBED TERRAIN		DISTURBED TERRAIN	Sydney	1:100,000

Soils Landscapes Data Source : NSW Office of Environment and Heritage

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Standard Local Environmental Plan Acid Sulfate Soils

High Street, Randwick, NSW 2031

Standard Local Environmental Plan Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description	LEP
N/A		

If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	LEP	Distance	Direction
N/A				

Acid Sulfate Data Source Accessed 07/10/2016: NSW Crown Copyright - Planning and Environment
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Dryland Salinity

High Street, Randwick, NSW 2031

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A	N/A	N/A

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

Feature Id	Classification	Description	Distance	Direction
N/A	Outside Data Coverage			

Dryland Salinity Potential of Western Sydney Data Source : NSW Office of Environment and Heritage

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Mining Subsidence Districts

High Street, Randwick, NSW 2031

Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)

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Environmental Zoning

High Street, Randwick, NSW 2031

State Environmental Planning Policy Protected Areas

Are there any State Environmental Planning Policy Protected Areas onsite or within the dataset buffer?

Dataset	Onsite	Within Site Buffer	Distance
SEPP14 - Coastal Wetlands	No	No	N/A
SEPP26 - Littoral Rainforests	No	No	N/A
SEPP71 - Coastal Protection Zone	No	No	N/A

SEPP Protected Areas Data Source: NSW Department of Planning & Environment
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State Environmental Planning Policy Major Developments (2005)

State Environmental Planning Policy Major Developments within the dataset buffer:

Map Id	Feature	Effective Date	Distance	Direction
N/A	No records within buffer			

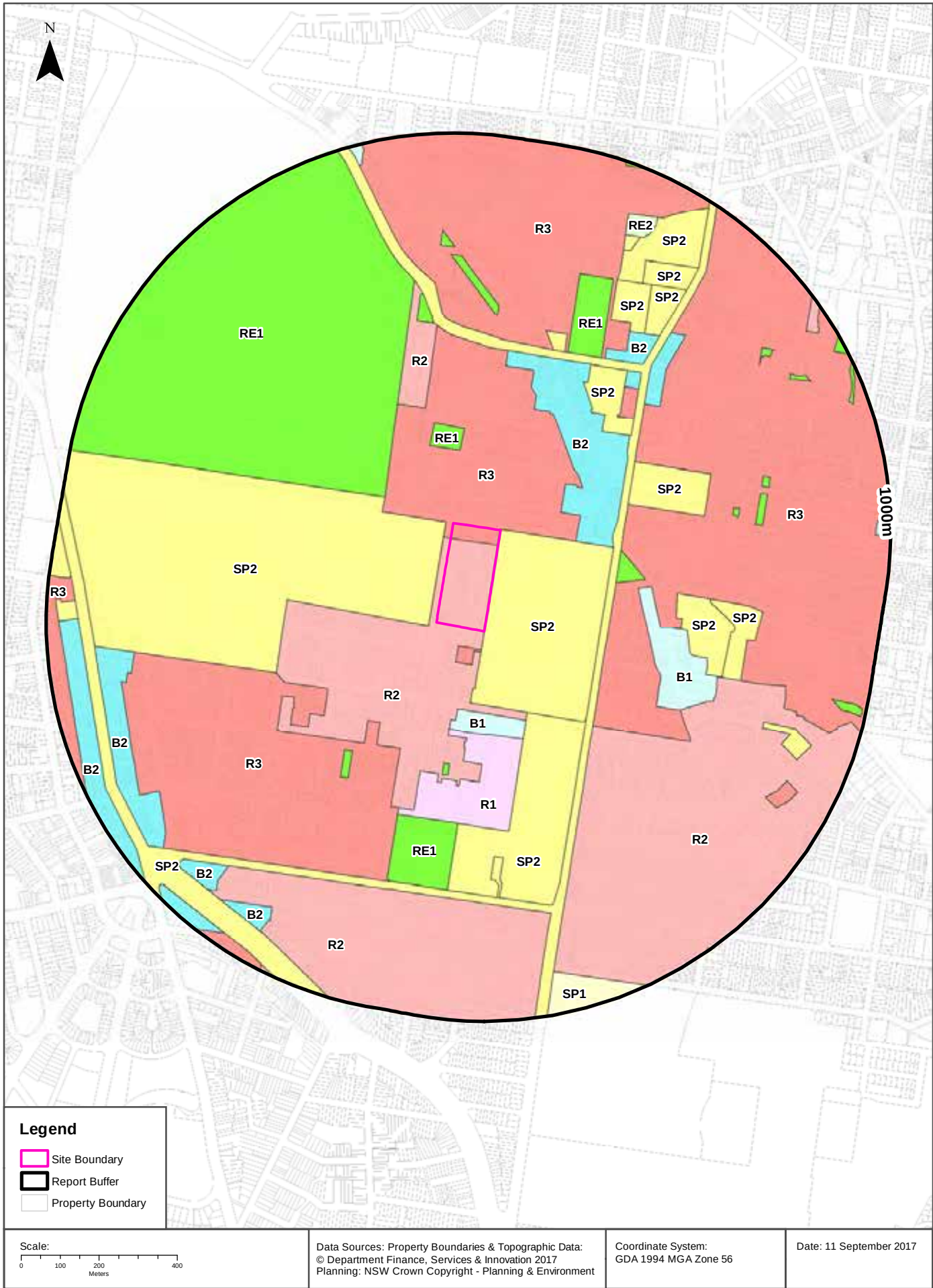
SEPP Major Development Data Source: NSW Department of Planning & Environment
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State Environmental Planning Policy Strategic Land Use Areas

State Environmental Planning Policy Strategic Land Use Areas onsite or within the dataset buffer:

Strategic Land Use	SEPPNo	Effective Date	Amendment	Amendment Year	Distance	Direction
No records within buffer						

SEPP Strategic Land Use Data Source: NSW Department of Planning & Environment
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Local Environmental Plan

High Street, Randwick, NSW 2031

Land Zoning

What Local Environmental Plan Land Zones exist within the dataset buffer?

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R2	Low Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		0m	Onsite
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		0m	Onsite
SP2	Infrastructure	Health Services Facilities	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		0m	South East
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		19m	West
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		50m	South
B2	Local Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		162m	North East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		185m	North
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		188m	North West
B1	Neighbourhood Centre		Randwick Local Environmental Plan 2012	02/04/2015	02/04/2015	02/04/2015	Amendment No 2	208m	South
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		235m	South
R1	General Residential		Randwick Local Environmental Plan 2012	02/04/2015	02/04/2015	02/04/2015	Amendment No 2	263m	South
SP2	Infrastructure	Classified Road	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		288m	South
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		294m	South West
R2	Low Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		303m	North
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		313m	East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		313m	East
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		333m	North East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		352m	South
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		362m	North East
R2	Low Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		368m	South East
B1	Neighbourhood Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		371m	South East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		395m	South West
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		417m	North East
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		473m	East
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		478m	North
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		479m	North
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		485m	North East
B2	Local Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		486m	North East
B2	Local Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		492m	North East

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		497m	South
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		512m	North
B2	Local Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		514m	North East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		540m	North
SP2	Infrastructure	Seniors Housing	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		559m	East
SP2	Infrastructure	Childcare Centre	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		579m	South
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		596m	East
SP2	Infrastructure	Cemetery	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		606m	North East
SP2	Infrastructure	Community Facility	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		623m	North East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		653m	East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		678m	East
R2	Low Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		690m	South
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		705m	North
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		709m	North East
SP2	Infrastructure	Public Administration Building	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		730m	North East
SP2	Infrastructure	Water Supply System	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		752m	South East
B2	Local Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		778m	South West
SP2	Infrastructure	Emergency Services Facility	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		783m	North East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		786m	North East
RE2	Private Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		820m	North East
B2	Local Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		821m	South West
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		835m	South East
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		836m	North East
B2	Local Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		843m	South West
SP1	Special Activities	Defence	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		891m	South
B2	Local Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		905m	South West
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		907m	East
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		919m	West
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		928m	West
R2	Low Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		934m	North East
SP2	Infrastructure	Educational Establishment	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		945m	West
B1	Neighbourhood Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		946m	North
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		951m	North East
B1	Neighbourhood Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		960m	East
B2	Local Centre		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		962m	South West

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R3	Medium Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		964m	South West
R2	Low Density Residential		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		986m	South
RE1	Public Recreation		Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		988m	North
SP2	Infrastructure	Electricity Generating Works	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015		993m	South East

Local Environment Plan Data Source: NSW Crown Copyright - Planning & Environment
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Local Environmental Plan

High Street, Randwick, NSW 2031

Minimum Subdivision Lot Size

What are the onsite Local Environmental Plan Minimum Subdivision Lot Sizes?

Symbol	Minimum Lot Size	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
F	400 m ²	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	15/02/2013		71.87

Maximum Height of Building

What are the onsite Local Environmental Plan Maximum Height of Buildings?

Symbol	Maximum Height of Building	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
46	9.50 m	Randwick Local Environmental Plan 2012	01/02/2013	15/01/2013	02/04/2015		71.8
60	15.00 m	Randwick Local Environmental Plan 2012	01/02/2013	15/01/2013	02/04/2015		13.1

Floor Space Ratio

What are the onsite Local Environmental Plan Floor Space Ratios?

Symbol	Floor Space Ratio	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
4	0.50	LEP	01/02/2013	15/02/2013	15/02/2013		71.8

Land Application

What are the onsite Local Environmental Plan Land Applications?

Application Type	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
Included	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	15/02/2013		100

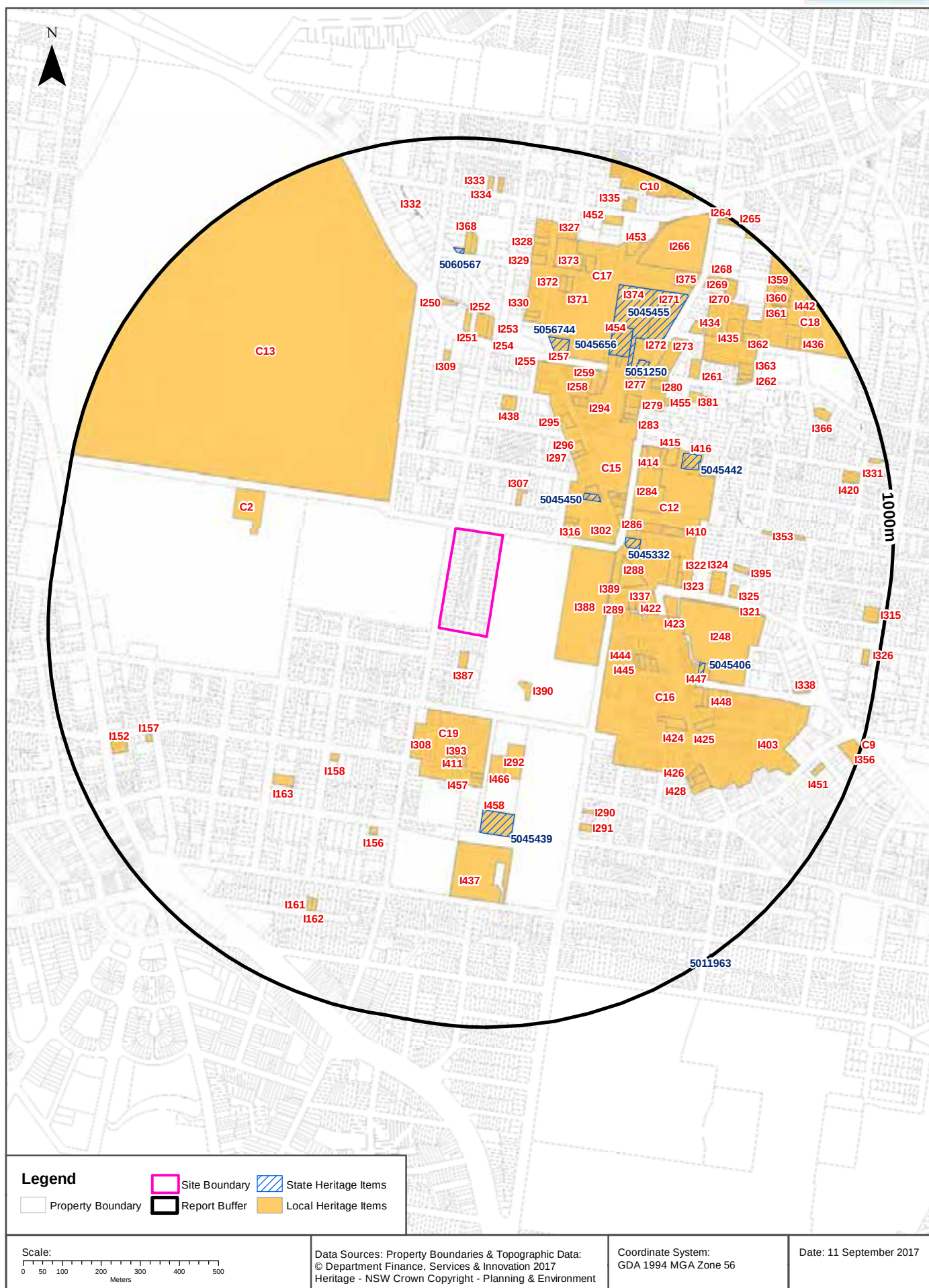
Land Reservation Acquisition

What are the onsite Local Environmental Plan Land Reservation Acquisitions?

Reservation	LEP	Published Date	Commenced Date	Currency Date	Amendment	Comments	Percentage of Site Area
No Data							

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High Street, Randwick, NSW 2031



Heritage

High Street, Randwick, NSW 2031

State Heritage Items

What are the State Heritage Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5045450	Sandgate	128 Belmore Road Randwick	Randwick	02/04/1999	67	261	225m	North East
5045332	Corana and Hygeia	211-215 Avoca Street Randwick	Randwick	02/04/1999	454	1177	314m	East
5045439	Big Stable Newmarket	29-39 Young Street Randwick	Randwick	02/04/1999	388	939	443m	South
5056744	Randwick Presbyterian Church	162 Alison Road Randwick	Randwick	08/05/2008	1777	2203	479m	North
5045442	Nugal Hall	16-18 Milford Street Randwick	Randwick	02/04/1999	173	354	487m	North East
5045455	St. Jude's Anglican Church, Cemetery, Rectory, Vergers Residence	102-108 Avoca Street Randwick	Randwick	02/04/1999	12	23	535m	North East
5045656	Avonmore Terrace	26-42 The Avenue Randwick	Randwick	02/04/1999	565	1534	537m	North East
5051250	Randwick Post Office (former) and Jubilee Fountain	124 Alison Road Randwick	Randwick	23/06/2000	1409		547m	North East
5045406	Ritz Theatre	43 St Pauls Street Randwick	Randwick	02/04/1999	348	832	549m	East
5060567	Electricity Substation No. 349	25 Frances Street Randwick	Randwick	02/05/2008	1792	2231	703m	North
5011963	Substation	60 Bundock Lane Randwick	Randwick	02/04/1999	935		993m	South East

Heritage Data Source: NSW Crown Copyright - Planning & Environment

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Local Heritage Items

What are the Local Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I387	'Cotswold', late Victorian cottage	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	50m	South
I307	Blenheim House and outbuilding	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	82m	North East
I390	Randwick Destitute Children's Asylum Cemetery	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	144m	South East
C15	Randwick Junction	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	147m	North East
I316	Semi-detached pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	156m	North East

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I388	Prince of Wales Hospital group (Main Block, Catherine Hayes Hospital and Superintendent's residence)	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	180m	East
C12	High Cross	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	180m	East
C13	Racecourse	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	188m	North West
C19	Struggletown	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	02/04/2015	02/04/2015	02/04/2015	208m	South
I301	'Sandgate'	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	225m	North East
I299	Commercial building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	237m	North East
I297	'Koorowi Flats' 3 storey commercial/residential building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	259m	North East
I296	3 storey commercial building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	265m	North East
I292	Newmarket Sale Ring	Item - General	Local	Randwick Local Environmental Plan 2012	02/04/2015	02/04/2015	02/04/2015	281m	South
I298	'Cooks Lodge' 2 storey commercial building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	286m	North East
I300	Federation commercial building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	286m	North East
I389	Prince of Wales Hospital gates and fence	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	288m	East
I392	Workers cottage	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	289m	South
I302	The Star and Garter Inn	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	291m	North East
I308	Georgian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	292m	South
I303	Statue of Captain James Cook	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	295m	East
I393	2 storey sandstone cottage	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	298m	South
I285	Late Victorian shop and residence	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	304m	North East
I466	Newmarket House	Item - General	Local	Randwick Local Environmental Plan 2012	02/04/2015	02/04/2015	02/04/2015	304m	South
I289	Post box	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	309m	East
I288	High Cross Park	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	313m	East
I295	Residential/commercial building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	313m	North East
C16	The Spot	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	313m	South East
I287	'Corana' and 'Hygeia'	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	314m	East

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I411	St Jude's Mission Church	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	318m	South
I412	Old stone cottage	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	318m	South
I413	Edwardian timber cottage	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	318m	South
I438	Group of Italianate houses	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	319m	North
I286	'Goldring House'	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	319m	East
I284	Our Lady of the Sacred Heart Church and 'Ventnor', sandstone house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	333m	North East
I336	'Essex', Victorian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	345m	East
I457	Weatherboard cottage	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	352m	South
I410	'Brighton Terrace'	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	353m	East
I337	'Edith', Victorian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	358m	East
I422	Royal Hotel	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	371m	East
I443	Victorian terrace	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	380m	South East
I294	3 storey Art Deco commercial building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	380m	North East
I444	Federation single storey cottage	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	386m	South East
I445	Victorian Italianate boom style 2 storey house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	393m	South East
I414	Victorian mansion	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	407m	North East
I158	Late 1920s house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	414m	South West
I283	'Somerset' and 'Glastonbury'	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	417m	North East
I446	Terraced pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	420m	South East
I258	'Seabird', Victorian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	424m	North East
I309	'Redlands', Art Deco flats	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	426m	North
I282	Terraced pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	430m	North East
I259	'Glanmire', Victorian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	432m	North East
I322	'Gower Galtees', Art Deco residential flat building, including fence and gates	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	433m	East
I255	'Rexmere', Victorian terrace	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	438m	North

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I256	'Hillcrest', Victorian terrace	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	438m	North
I281	Terraced pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	440m	North East
I458	Big Stable Newmarket	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	443m	South
I415	Californian bungalow	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	445m	North East
I423	Pair of cottages	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	448m	East
I279	'Clovelly', 'Ilfracombe' and 'Torquay', Italianate houses	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	456m	North East
I323	Edwardian residence	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	458m	East
I321	Coogee Bay Road Retaining Walls	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	473m	East
I248	'Aeolia', Brigidine Convent and Chapel	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	473m	East
I257	Randwick Presbyterian Church	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	479m	North
C17	St Jude's	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	479m	North East
I254	St Jude's Well, early stone fountain	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	480m	North
I424	Grand Edwardian mansion	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	483m	South East
I416	'Nugal Hall', Gothic revival sandstone mansion	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	488m	North East
I253	'Rothesay', Art Deco residential flats	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	488m	North
I252	'Verona', 'Amphion' and 'Donacis', Boom style houses	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	491m	North
I277	Commercial building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	497m	North East
C2	Old Tote & Figtree Theatre	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	498m	West
I251	'Carlton', Victorian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	500m	North
I290	Late Edwardian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	506m	South East
I276	Commercial building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	512m	North East
I260	Stone commercial building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	523m	North East
I455	2 storey semi-detached pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	528m	North East
I437	Rainbow Street Public School	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	530m	South
I163	Inter-war mansion	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	532m	South West

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I156	1950s brick house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	535m	South
I291	'Canberra', Edwardian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	535m	South East
I280	Coach and Horses Hotel	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	536m	North East
I447	Ritz Cinema	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	537m	East
I454	'Avonmore Terrace'	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	537m	North East
I324	'Glen Mervyn'	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	544m	East
I274	Former Randwick Post Office	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	547m	North East
I275	Jubilee Fountain	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	554m	North East
I330	'Juverna', Art Deco flat buildings	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	565m	North
I448	Masonic Temple, classical revival style	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	565m	South East
I278	Part of Victorian and inter-war building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	570m	North East
I250	'Shahzada', Victorian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	572m	North
I425	Federation house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	576m	South East
I381	Pair of 2 storey stone cottages	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	586m	North East
I273	Victorian and inter-war building (shopfronts with residences above)	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	593m	North East
I395	2 storey Federation house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	596m	East
I325	Former police station	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	596m	East
I455	2 storey semi-detached pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	596m	East
I374	St Jude's Cemetery	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	606m	North East
I272	Hetta Building, commercial/residential building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	609m	North East
I271	St Jude's Group (St Jude's Anglican Church, Rectory, Old Borough Chambers and Hall (Note - Cemetery*)	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	623m	North East
I261	Residential flat building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	625m	North East
I426	Unusual Edwardian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	626m	South East
I427	Federation Queen Anne house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	640m	South East
I371	Federation Queen Anne single storey house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	642m	North

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I372	Federation Queen Anne single storey house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	644m	North
I428	Federation Queen Anne houses	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	649m	South East
I353	Dolphin Street Sandstone Retaining Wall and Embankment	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	662m	East
C18	St Mark's	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	679m	North East
I329	Federation house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	700m	North
I373	Group of Federation mansions	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	701m	North
I369	Federation arts and crafts 2 storey house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	701m	North
I368	Federation arts and crafts 2 storey house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	702m	North
I433	Small Gothic church	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	703m	North East
I370	Electricity Substation No 349	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	704m	North
I373	Group of Federation mansions	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	708m	North
I262	Freestanding Victorian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	710m	North East
I434	Part of historic residential streetscape	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	726m	North East
I363	Sandstone cottage and terraced pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	731m	North East
I328	Federation house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	751m	North
I403	Transitional Victorian/Edwardian style house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	758m	South East
I435	Part of historic residential streetscape	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	760m	North East
I162	Late 1920s residential flat building	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	761m	South West
I161	Late modern house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	762m	South West
I266	Randwick Public School (c 1924) and Randwick North High School (1886)	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	775m	North East
I375	Randwick Town Hall	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	777m	North East
I453	Randwick Fire Station	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	783m	North East
I157	'Lanor', Edwardian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	785m	South West
I362	Victorian Italianate residence	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	789m	North East
I338	St Pauls Road Sandstone Retaining Wall	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	793m	East

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I327	'Woodville', Edwardian house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	797m	North
I332	Part of Normanhurst boundary wall (adjacent to former tramway reservation)	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	798m	North
I270	'Braemar'	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	816m	North East
I267	Post box	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	822m	North East
I269	'Aloha'	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	827m	North East
I268	'Eulalia'	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	837m	North East
I452	'Tayar', Italianate house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	837m	North
I152	Commercial/residential group, 'O'Dea's Corner'	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	849m	South West
I366	'Farnham House'	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	855m	North East
I334	Semi-detached pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	868m	North
I436	Victorian residence	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	868m	North East
I333	'Pepadeniya', Federation bungalow	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	869m	North
I420	Terraced row	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	873m	East
I361	Victorian Italianate villa	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	886m	North East
I335	'Peckham', Victorian mansion	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	887m	North East
I451	Spanish Mission style residential flat pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	901m	South East
I442	Group of Italianate houses	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	903m	North East
I360	Pair of Victorian residences	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	921m	North East
C10	Gordon Square	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	940m	North East
C9	Dudley Street	Conservation Area - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	941m	South East
I356	Group of 4 bungalows	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	941m	South East
I315	Single storey attached row	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	943m	East
I331	Bungalow	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	950m	East
I359	Electricity Substation No 287	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	957m	North East
I326	Victorian semi-detached pair	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	959m	East

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I265	Site of Father Shaw's Wireless Works	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	979m	North East
I311	Electricity Substation No 341	Item - General	State	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	993m	South East
I264	'Archina', 2 storey Federation house	Item - General	Local	Randwick Local Environmental Plan 2012	01/02/2013	15/02/2013	02/04/2015	994m	North East

Heritage Data Source: NSW Crown Copyright - Planning & Environment

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Natural Hazards

High Street, Randwick, NSW 2031

Bush Fire Prone Land

What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
No records within buffer		

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence



Legend			
Site Boundary	Rainforest	Forested Wetlands	Grasslands
Report Buffer	Wet Sclerophyll Forests	Grassy Woodlands	Freshwater Wetlands
Property Boundary	Dry Sclerophyll Forests	Heathlands	Saline Wetlands
		Artificial Wetlands	Water
			RAMSAR Wetlands
			Other

Scale: 0 100 200 400 Meters	Proptert Boundary Data Source: © Department Finance, Services & Innovation 2017	Coordinate System: GDA 1994 MGA Zone 56	Date: 11 September 2017
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Ecological Constraints

High Street, Randwick, NSW 2031

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Direction
Urban_E/N	Urban_E/N: Urban Exotic/Native			00: Not assessed	00: Not assessed	0: Not assessed	Urban Exotic/Native	0m	Onsite

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage

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RAMSAR Wetlands

What RAMSAR Wetland areas exist within the dataset buffer?

Map Id	RAMSAR Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

RAMSAR Wetlands Data Source: © Commonwealth of Australia - Department of Environment

Ecological Constraints

High Street, Randwick, NSW 2031

ATLAS of NSW Wildlife

Endangered & Vulnerable Species on the ATLAS of NSW Wildlife database, within 10km of the site?

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Amphibia	Hylidae	Litoria aurea	Green and Golden Bell Frog	No	Endangered, Protected	Vulnerable
Amphibia	Myobatrachidae	Crinia tinnula	Wallum Froglet	No	Vulnerable, Protected	
Amphibia	Myobatrachidae	Pseudophryne australis	Red-crowned Toadlet	No	Vulnerable, Protected	
Aves	Accipitridae	Haliaeetus leucogaster	White-bellied Sea-Eagle	No	Vulnerable, Protected	CAMBA
Aves	Accipitridae	Hieraaetus morphnoides	Little Eagle	No	Vulnerable, Protected	
Aves	Accipitridae	Lophoictinia isura	Square-tailed Kite	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Accipitridae	Pandion cristatus	Eastern Osprey	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Anatidae	Stictonetta naevosa	Freckled Duck	No	Vulnerable, Protected	
Aves	Anseranatidae	Anseranas semipalmata	Magpie Goose	No	Vulnerable, Protected	
Aves	Ardeidae	Botaurus poiciloptilus	Australasian Bittern	No	Endangered, Protected	Endangered
Aves	Artamidae	Artamus cyanopterus cyanopterus	Dusky Woodswallow	No	Vulnerable, Protected	
Aves	Burhinidae	Burhinus grallarius	Bush Stone-curlew	No	Endangered, Protected	
Aves	Cacatuidae	Calyptorhynchus lathami	Glossy Black-Cockatoo	No	Vulnerable, Protected, Category 2 Sensitive Species	
Aves	Charadriidae	Charadrius leschenaultii	Greater Sand-plover	No	Vulnerable, Protected	V,C,J,K
Aves	Charadriidae	Charadrius mongolus	Lesser Sand-plover	No	Vulnerable, Protected	E,C,J,K
Aves	Columbidae	Ptilinopus superbus	Superb Fruit-Dove	No	Vulnerable, Protected	
Aves	Dasyornithidae	Dasyornis brachypterus	Eastern Bristlebird	No	Endangered, Protected, Category 2 Sensitive Species	Endangered
Aves	Diomedidae	Diomedea exulans	Wandering Albatross	No	Endangered, Protected	E,J
Aves	Diomedidae	Diomedea gibsoni	Gibson's Albatross	No	Vulnerable, Protected	Vulnerable
Aves	Diomedidae	Thalassarche cauta	Shy Albatross	No	Vulnerable, Protected	Vulnerable
Aves	Diomedidae	Thalassarche melanophris	Black-browed Albatross	No	Vulnerable, Protected	Vulnerable
Aves	Estrildidae	Stagonopleura guttata	Diamond Firetail	No	Vulnerable, Protected	
Aves	Haematopodidae	Haematopus fuliginosus	Sooty Oystercatcher	No	Vulnerable, Protected	
Aves	Haematopodidae	Haematopus longirostris	Pied Oystercatcher	No	Endangered, Protected	
Aves	Laridae	Onychoprion fuscata	Sooty Tern	No	Vulnerable, Protected	
Aves	Laridae	Procelsterna cerulea	Grey Ternlet	No	Vulnerable, Protected	
Aves	Laridae	Sternula albifrons	Little Tern	No	Endangered, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Meliphagidae	Anthochaera phrygia	Regent Honeyeater	No	Critically Endangered Species, Protected	Critically Endangered
Aves	Meliphagidae	Epthianura albifrons	White-fronted Chat	No	Vulnerable, Protected	
Aves	Meliphagidae	Epthianura albifrons	White-fronted Chat population in the Sydney Metropolitan Catchment Management Area	No	Endangered Population, Vulnerable, Protected	

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Aves	Neosittidae	Daphoenositta chrysoptera	Varied Sittella	No	Vulnerable, Protected	
Aves	Petroicidae	Petroica boodang	Scarlet Robin	No	Vulnerable, Protected	
Aves	Procellariidae	Ardena carneipes	Flesh-footed Shearwater	No	Vulnerable, Protected	J,K
Aves	Procellariidae	Macronectes giganteus	Southern Giant Petrel	No	Endangered, Protected	Endangered
Aves	Procellariidae	Macronectes halli	Northern Giant-Petrel	No	Vulnerable, Protected	Vulnerable
Aves	Procellariidae	Pterodroma leucoptera leucoptera	Gould's Petrel	No	Vulnerable, Protected	Endangered
Aves	Psittacidae	Glossopsitta pusilla	Little Lorikeet	No	Vulnerable, Protected	
Aves	Psittacidae	Lathamus discolor	Swift Parrot	No	Endangered, Protected, Category 3 Sensitive Species	Critically Endangered
Aves	Psittacidae	Pezoporus wallicus wallicus	Eastern Ground Parrot	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Psittacidae	Polytelis swainsonii	Superb Parrot	No	Vulnerable, Protected, Category 3 Sensitive Species	Vulnerable
Aves	Scolopacidae	Calidris alba	Sanderling	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Calidris ferruginea	Curlew Sandpiper	No	Endangered, Protected	CE,C,J,K
Aves	Scolopacidae	Calidris tenuirostris	Great Knot	No	Vulnerable, Protected	CE,C,J,K
Aves	Scolopacidae	Limicola falcinellus	Broad-billed Sandpiper	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Limosa limosa	Black-tailed Godwit	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Xenus cinereus	Terek Sandpiper	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Strigidae	Ninox connivens	Barking Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Strigidae	Ninox strenua	Powerful Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Mammalia	Balaenidae	Eubalaena australis	Southern Right Whale	No	Endangered, Protected	Endangered
Mammalia	Balaenopteridae	Megaptera novaeangliae	Humpback Whale	No	Vulnerable, Protected	Vulnerable
Mammalia	Dasyuridae	Dasyurus maculatus	Spotted-tailed Quoll	No	Vulnerable, Protected	Endangered
Mammalia	Dugongidae	Dugong dugon	Dugong	No	Endangered, Protected	
Mammalia	Emballonuridae	Saccolaimus flaviventris	Yellow-bellied Shearwater-bat	No	Vulnerable, Protected	
Mammalia	Molossidae	Mormopterus norfolkensis	Eastern Freetail-bat	No	Vulnerable, Protected	
Mammalia	Otariidae	Arctocephalus forsteri	New Zealand Fur-seal	No	Vulnerable, Protected	
Mammalia	Otariidae	Arctocephalus pusillus doriferus	Australian Fur-seal	No	Vulnerable, Protected	
Mammalia	Peramelidae	Perameles nasuta	Long-nosed Bandicoot population in inner western Sydney	No	Endangered Population, Protected	
Mammalia	Potoroidae	Aepyprymnus rufescens	Rufous Bettong	No	Vulnerable, Protected	
Mammalia	Pteropodidae	Pteropus poliocephalus	Grey-headed Flying-fox	No	Vulnerable, Protected	Vulnerable
Mammalia	Vespertilionidae	Falsistrellus tasmaniensis	Eastern False Pipistrelle	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	Miniopterus australis	Little Bentwing-bat	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	Miniopterus schreibersii oceanensis	Eastern Bentwing-bat	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	Myotis macropus	Southern Myotis	No	Vulnerable, Protected	
Reptilia	Cheloniidae	Chelonia mydas	Green Turtle	No	Vulnerable, Protected	Vulnerable
Reptilia	Dermochelyidae	Dermochelys coriacea	Leatherback Turtle	No	Endangered, Protected	Endangered
Flora	Asteraceae	Senecio spathulatus	Coast Groundsel	No	Endangered, Protected	

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Flora	Casuarinaceae	<i>Allocasuarina portuensis</i>	Nielsen Park She-oak	No	Endangered, Protected, Category 3 Sensitive Species	Endangered
Flora	Dilleniaceae	<i>Hibbertia puberula</i>		No	Endangered, Protected	
Flora	Doryanthaceae	<i>Doryanthes palmeri</i>	Giant Spear Lily	No	Vulnerable, Protected	
Flora	Elaeocarpaceae	<i>Tetratheca glandulosa</i>		No	Vulnerable, Protected	
Flora	Elaeocarpaceae	<i>Tetratheca juncea</i>	Black-eyed Susan	No	Vulnerable, Protected	Vulnerable
Flora	Fabaceae (Faboideae)	<i>Pultenaea parviflora</i>		No	Endangered, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	<i>Acacia gordonii</i>		No	Endangered, Protected	Endangered
Flora	Fabaceae (Mimosoideae)	<i>Acacia pubescens</i>	Downy Wattle	No	Vulnerable, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	<i>Acacia terminalis</i> subsp. <i>terminalis</i>	Sunshine Wattle	No	Endangered, Protected	Endangered
Flora	Grammitidaceae	<i>Grammitis stenophylla</i>	Narrow-leaf Finger Fern	No	Endangered, Protected, Category 3 Sensitive Species	
Flora	Myrtaceae	<i>Callistemon linearifolius</i>	Netted Bottle Brush	No	Vulnerable, Protected, Category 3 Sensitive Species	
Flora	Myrtaceae	<i>Eucalyptus camfieldii</i>	Camfield's Stringybark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	<i>Eucalyptus fracta</i>	Broken Back Ironbark	No	Vulnerable, Protected	
Flora	Myrtaceae	<i>Eucalyptus nicholii</i>	Narrow-leaved Black Peppermint	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	<i>Eucalyptus pulverulenta</i>	Silver-leafed Gum	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	<i>Eucalyptus scoparia</i>	Wallangarra White Gum	No	Endangered, Protected	Vulnerable
Flora	Myrtaceae	<i>Melaleuca biconvexa</i>	Biconvex Paperbark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	<i>Melaleuca deanei</i>	Deane's Paperbark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	No	Endangered, Protected	Vulnerable
Flora	Myrtaceae	<i>Triplarina imbricata</i>	Creek Triplarina	No	Endangered, Protected	Endangered
Flora	Orchidaceae	<i>Caladenia tessellata</i>	Thick Lip Spider Orchid	No	Endangered, Protected, Category 2 Sensitive Species	Vulnerable
Flora	Orchidaceae	<i>Diuris arenaria</i>	Sand Doubletail	No	Endangered, Protected, Category 2 Sensitive Species	
Flora	Poaceae	<i>Dichanthium setosum</i>	Bluegrass	No	Vulnerable, Protected	Vulnerable
Flora	Proteaceae	<i>Persoonia hirsuta</i>	Hairy Geebung	No	Endangered, Protected, Category 3 Sensitive Species	Endangered
Flora	Proteaceae	<i>Persoonia nutans</i>	Nodding Geebung	No	Endangered, Protected	Endangered
Flora	Rutaceae	<i>Asterolasia buxifolia</i>		No	Endangered, Protected	
Flora	Santalaceae	<i>Thesium australe</i>	Austral Toadflax	No	Vulnerable, Protected	Vulnerable
Flora	Thymelaeaceae	<i>Pimelea curviflora</i> var. <i>curviflora</i>		No	Vulnerable, Protected	Vulnerable
Flora	Thymelaeaceae	<i>Pimelea spicata</i>	Spiked Rice-flower	No	Endangered, Protected	Endangered

Data does not include records not defined as either endangered or vulnerable, and category 1 sensitive species are also excluded. NSW Office of Environment and Heritage's Atlas of NSW Wildlife, which holds data from a number of custodians. Data obtained 11/09/2017

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Locality : RANDWICK

Cadastral Records Enquiry Report

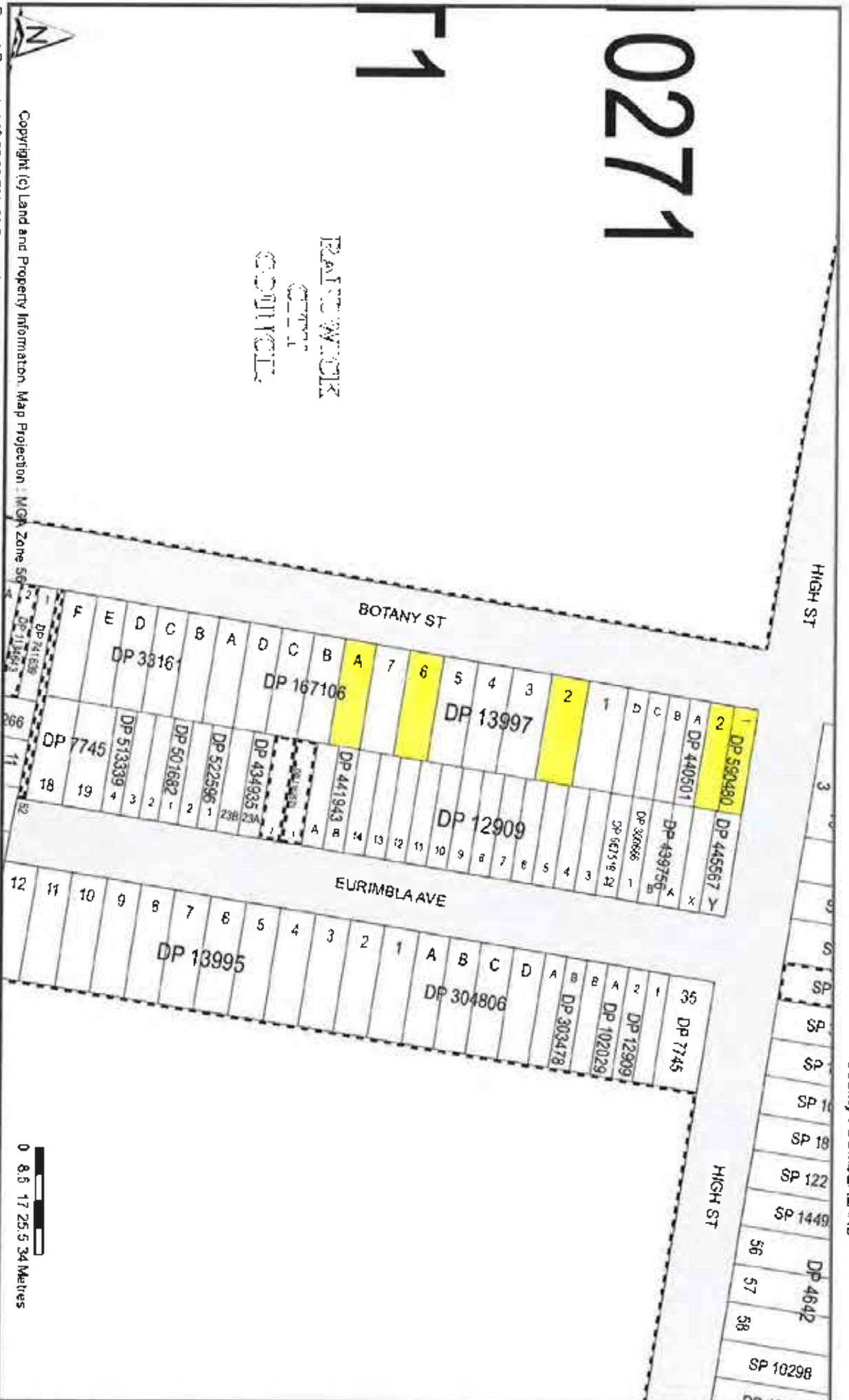
Requested Parcel : Lot 6 DP 13997

LGA : RANDWICK

Parish : ALEXANDRIA

Identified Parcel : Lot 6 DP 13997

County : CUMBERLAND



Copyright (c) Land and Property Information, Map Projection : MGR Zone 56

0 8.5 17 25.5 34 Metres

N	O	O	2	A	I	A
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STATE OF TITLE
 PROPERTY ACT, 1900



13394063

NEW SOUTH WALES

Vol. **13394** Fol. **63**

EDITION ISSUED

2 8 1977

Appln. No. 7591

Prior Title Vol. 3075 Vol. 226



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.

CANCELLED

Registrar General.



PLAN SHOWING LOCATION OF LAND

SEE AUTO FOLIO

LENGTHS ARE IN METRES

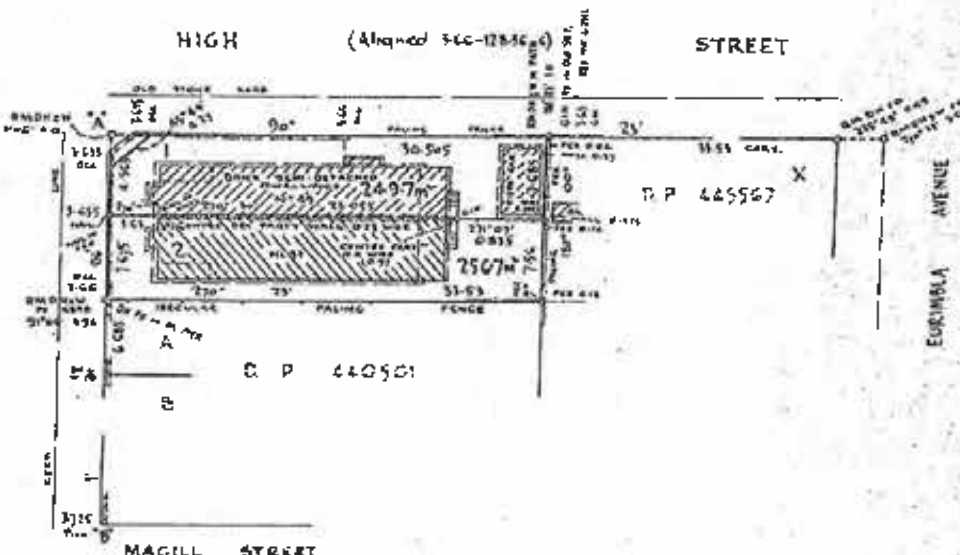


BOTANY STREET
 (Aligned 164-18-16)

HIGH

(Aligned 344-128-16)

STREET



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 590480 at Kandwick in the Municipality of Randwick Parish of Alexandria and County of Cumberland being part of 2.695 hectares granted to Simeon Henry Pearce and James Pearce on 1-11-1851.

FIRST SCHEDULE

IGNAS ANTHONY KAVA of South Coogee, Builder and DYMPIA MARY KAVA his wife as joint tenants.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

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

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

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR

FIRST SCHEDULE (continued)					
REGISTERED PROPRIETOR	INSTRUMENT			ENTERED	Signature of Registering Officer
	NATURE	NUMBER	DATE		
<i>Edward George of Sandwich, hereby transfer to his wife Mrs. Edith Mary of Sandwich</i> Alfred Chen of Sandwich, Accountant, and Christina Chen his wife as joint tenants	Transfer	PS2C440	27-5-1980	27-5-1980	<i>[Signature]</i>
CANCELLED					
SEE ADDI P/10					

DECLINED

SEE ALSO: **FOCUS**

SECOND SCHEDULE (continued)

SECOND SCHEDULE (continued)						
NATURE	INSTRUMENT NUMBER	DATE	PARTICULARS	ENTERED	Signature of Register General	CANCELLATION
TRANSFER	O 138205		Cross-purchase "re 1914" Trusting Act 1919 affecting party will shown as the common boundary of lots 1 & 2 in A.D. 51000	8-8-1977	[Signature]	
Mortgage	O 1371520		A part of the South Side Survey dated 1914 by Deacon to Deacon Timonah Savilese Pty Ltd.	22-6-1977	[Signature]	Discharged RE 20439
Mortgage	O 1371520		by Deacon to Deacon Timonah Savilese Pty Ltd.	2-11-1977	[Signature]	Withdrawn RB 20439
Mortgage	RE 20441		to Commonwealth Savings Bank of Australia	27-5-1980	[Signature]	Discharged X568255

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

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

29/9/2017 10:02AM

FOLIO: 1/590480

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 13394 FOL 63

<u>Recorded</u>	<u>Number</u>	<u>Type of Instrument</u>	<u>C.T. Issue</u>
28/3/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
23/8/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
28/2/1994	U64915	TRANSFER	
28/2/1994	U64916	MORTGAGE	EDITION 1
29/9/1995	O575538	CAVEAT	
25/10/1995	O635601	WITHDRAWAL OF CAVEAT	
10/11/1997		AMENDMENT: LOCAL GOVT AREA	
22/5/1998	S005529	CAVEAT	

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/590480

SEARCH DATE	TIME	EDITION NO	DATE
29/9/2017	10:01 AM	1	28/2/1994

LAND

LCT 1 IN DEPOSITED PLAN 590480
AT RANDWICK
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP590480

FIRST SCHEDULE

DEREK ROY MAHONY IT 064915)

SECOND SCHEDULE (4 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 Q258245 CROSS EASEMENTS (S.191B CONVEYANCING ACT, 1919)
AFFECTING PARTY WALL BORN ON THE COMMON BOUNDARY OF
LOTS 1 AND 2 IN DP590480
- 3 064916 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED
- * 4 5005529 CAVEAT BY ELIZABETH MAHONY

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS POLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS POLIO.

UNREGISTERED DEALINGS: Nil.

*** END OF SEARCH ***

Randwick

PRINTED ON 29/9/2017



CERTIFICATE OF TITLE

PROPERTY ACT, 1900



13394/064

NEW SOUTH WALES

Appln. No. 7591

Prior Title Vol. 3075 Fol. 226

Vol. **13394** Fol. **64**

EDITION ISSUED

2 8 1977



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.

[Signature]

Registrar General.

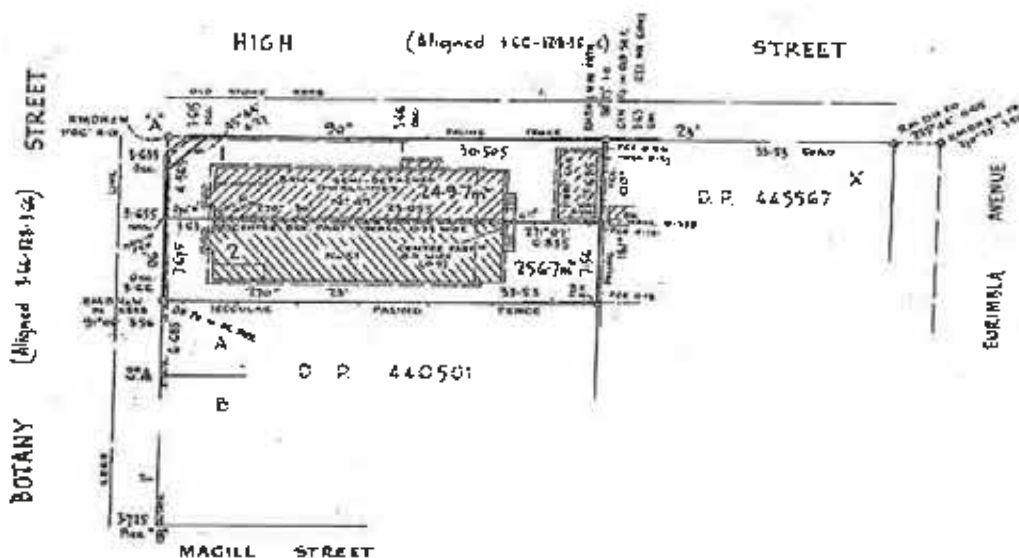


PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

CANCELLED

SEE AUTO FOLIO



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 2 in Deposited Plan 590480 at Randwick in the Municipality of Randwick Parish of Alexandria and County of Cumberland being part of 2.695 hectares granted to Simeon Henry Pearce and James Pearce on 1-11-1851.

FIRST SCHEDULE

IGNAS ANTHONY KAVA of South Sydney, Builder and DYMENIA MARY KAVA his wife as joint tenants.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

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

(Page 2 of 2 pages)

Val. 13394 Fol. 64

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR			INSTRUMENT			CANCELLATION	
NATURE	NUMBER	DATE	NATURE	NUMBER	DATE	ENTERED	Signature of Registrar General
Geoffrey Ruby Proprietor of Randwick Widow.			Transfer	0000045	06-1977		
Lynette Mary Wheelock by Transfer 1960123. Registered 13-11-1961.							
Michael Patrick Fenner and Guy Fenner People as joint tenants by Transfer W35553. Registered 10-6-1985.							
Arif Sahadi and Vincent Sujantha as joint tenants by Transfer 1714964 Registered 22-7-1988							

SECOND SCHEDULE (continued)

INSTRUMENT			PARTICULARS			CANCELLATION	
NATURE	NUMBER	DATE		ENTERED	Signature of Registrar General		
Transfer	0150245		Land Transfer Act 1979 affecting party wall down on the common boundary of Nos 1 & 2 of 25 STOKES	8-3-1977			
W35554 Mortgage to National Australia Savings Bank Limited. Registered 12-6-1985.						Discharged X504333	
W37139 Mortgage to Stuart Bonitas People and Debra Mabel Peole as joint tenants. Registered 8-8-1985						Discharged X504332	
W36335 Mortgage to St George Building Society Ltd. Registered 2-5-1988.						Discharged X714963	
X714965 Mortgage to Westpac Savings Bank Limited Registered 22-7-1988							

SEE AUTO FOLIO

CANCELLED

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

Handwritten notes and signatures at the bottom of the page, including "X 504333" and "X 504332".

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

29/9/2017 10:02AM

FOLIO: 2/590480

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 13394 FOL 64

Recorded	Number	Type of Instrument	C.T. Issue
28/3/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
29/7/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
10/11/1997		AMENDMENT: LOCAL GOVT AREA	
24/3/1998	3872900	CHANGE OF NAME	
24/3/1998	3872901	MORTGAGE	EDITION 1
26/11/1999	6375584	DISCHARGE OF MORTGAGE	
26/11/1999	6375585	DISCHARGE OF MORTGAGE	EDITION 2
27/3/2009	AE580422	TRANSFER	
27/3/2009	AE580423	MORTGAGE	EDITION 3
2/5/2016	AK397296	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

Ref:Randwick /Src:M

Form: 9/1-10/01

Licence: 25G/0654/96

Application to Record CHANGE OF NAME

Land Titles Office use only

3872900 S

New South Wales
Real Property Act 1919
Crown Land Acts 1919
Western Lands Act 1919



(A) LAND

FOLIO: 2/590480

(B) REGISTERED DEALING

If applicable.

(C) LODGED BY

L.T.O. Box

25G

Name, Address or DX and Telephone

THE MORTGAGE COMPANY PTY LTD ACN 070 968 302
NSW Service Centre 7 King Street Concord West NSW 2138
Tel: 9767 0000 Fax: 9767 0481

REFERENCE (max. 15 characters): 46312837 MPC HP

(D) REGISTERED PROPRIETOR

whose name is to be changed

VINNTJE SUGUANTHO

(E) NEW NAME

In full.

CN

VIEN SUHADI

(F) I, the Registered Proprietor, apply to have my New Name recorded in the Register in respect of the above Land.

(G) STATUTORY DECLARATION BY THE APPLICANT

I, VIEN SUHADI, solemnly and sincerely declare that

• I am identical with the Registered Proprietor referred to above;

• On 11th May 1981 at Surabaya in the State of EAST-JAVA INDONESIA I married ARIEF SUHADI

And I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900, and I certify this application correct for the purposes of the Real Property Act 1900.

Made and subscribed at KENSINGTON NSW 2033 in the State of New South Wales on 13-02-1998

in the presence of

PHOTOCOPY OF THE

ORIGINAL DOCUMENT

Dated 13/02/98

BASIL MICHALOPOULOS

JUSTICE OF THE PEACE

212 Anzac Parade Kensington NSW 2033

Signature

Date 13/02/98

Signature of Witness

Name of Witness (BLOCK LETTERS)

Justice of the Peace/Solicitor

Address and Qualification of Witness

Signature of Applicant

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 2/590480

SEARCH DATE	TIME	EDITION NO	DATE
29/9/2017	10:01 AM	3	27/3/2009

LAND

LOT 2 IN DEPOSITED PLAN 590480
AT RANDWICK
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP590480

FIRST SCHEDULE

PULL FACE ORTHODONTICS PTY LTD (T AE580422)

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 Q288245 CROSS EASEMENTS (S.181B CONVEYANCING ACT, 1919)
AFFECTING PARTY WALL SHOWN ON THE COMMON BOUNDARY OF
LOTS 1 AND 2 IN DP590480
- 3 AE580423 MORTGAGE TO COMMONWEALTH BANK OF AUSTRALIA

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Randwick

PRINTED ON 29/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

29/9/2017 10:02AM

FOLIO: 2/13997

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 3965 FOL 148

Recorded	Number	Type of Instrument	C.T. Issue
16/2/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
8/8/1990		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
15/6/1995	0307201	DISCHARGE OF MORTGAGE	
15/6/1995	0307202	MORTGAGE	EDITION 1
19/12/1996	2706063	DISCHARGE OF MORTGAGE	
19/12/1996	2706064	TRANSFER	EDITION 2
28/8/1997		AMENDMENT: LOCAL GOVT AREA	
28/6/2007	AD228624	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	
28/6/2007	AD228625	TRANSFER	EDITION 3
6/3/2012	AG855267	TRANSFER	EDITION 4

*** END OF SEARCH ***

97-01T



TRANSFER

Real Property Act, 1900



2706064 K

06/2/97

Office of
50/244220200 71 6040 947150
LAND TITLES OFFICE

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

FOLIO IDENTIFIER 2/13997

(B) **LODGED BY**

L.T.O. Box

416

Name, Address or DX and Telephone

MIDDLETONS MOORE & BEVING
SOLICITORS
7 MACQUARIE PLACE, SYDNEY
DX 10263 SYDNEY STOCK EXCHANGE
PHONE 390 8100

REFERENCE (max. 15 characters):

D 5063.MAA

(C) **TRANSFEROR**

DANNY CALLIGEROS

(D) acknowledges receipt of the consideration of \$435,000.00

and as regards the land specified above transfers to the Transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES**

1.

2.

3.

(F) **TRANSFEEE**

T

JOHN HEATH ROBERTS

(G)

TENANCY:

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900.

DATED

18 December 1996

Signed in my presence by the Transferor who is personally known to me.

Georgina Oroulias

Signature of Witness

GEORGINA OROULIAS

Name of Witness (BLOCK LETTERS)

12 TOWERS STREET, ARNCLIFFE

Address of Witness

Danny Calligeros

Signature of Transferor

Signed in my presence by the Transferee who is personally known to

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

Solicitor for

Signature of Transferee

LEON GEORGE SAKARIS

INSTRUCTIONS FOR FILING OUT THIS FORM ARE AVAILABLE FROM THE LAND TILES OFFICE

CHECKED BY (office use only)

Ref:Randwick /Src:M

Form: 011
Licence: 98M111
Edition: 0702

TRANSFER

New South Wales
Real Property Act 1900



AD228625J

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar by this form for the establishment and maintenance of the Real Property Act R the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

NEW SOUTH WALES DUTY

28-06-2007

0004371320-001

TRANSFER - TRANSFER

OUTSTANDING AMOUNT \$ 100,000.00

DUTY \$ 33,290.00

(A) **FOLIO OF THE REGISTER**

If appropriate, specify the part transferred

FOLIO 2/13997

(B) **LODGED BY**

Document
Collection
Box

Name, Address or DX, Telephone, and LLPN if any

Blueprint Law
Suite 602, 100 William Street, Sydney NSW 2011

(W)

Reference (optional): GR

CODES

T

TW

(Sheriff)

(C) **TRANSFEROR**

JOHN HEATH ROBERTS

(D) **CONSIDERATION**

The transferor acknowledges receipt of the consideration of \$ 825,000 and as regards

(E) **ESTATE**

the folio of the Register specified above transfers to the transferee an estate in fee simple.

(F) **SHARE TRANSFERRED**

(G)

Encumbrances (if applicable): 1. 2. 3.

(H) **TRANSFeree**

CHANGE SUFFIT PTY LIMITED (ACN 068 250 233)

(I)

TENANCY:

DATE

26 / 06 / 2007

dd mm yyyy

(J) I certify that the transferor, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this transfer in my presence.

Signature of witness:

[Signature]

Name of witness:

BALJIT K. SIDHU 2001

Address of witness:

13 DARVALL ST, NAREMBURN
NSW 2065, AUSTRALIA

I certify that the transferee, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this transfer in my presence.

Signature of witness:

[Signature]

Name of witness:

BALJIT K. SIDHU

Address of witness:

13 DARVALL ST, NAREMBURN
NSW 2065, AUSTRALIA.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor:

[Signature]

Certified correct for the purposes of the Real Property Act 1900 by the transferee.

Signature of transferee:

[Signature]

If signed on the transferee's behalf by a solicitor, licensed conveyancer or barrister, insert the signatory's full name and capacity below:

SOLE DIRECTOR / SECRETARY

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 2/13997

SEARCH DATE	TIME	EDITION NO	DATE
29/9/2017	10:01 AM	4	6/3/2012

LAND

LOT 2 IN DEPOSITED PLAN 13997
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP13997

FIRST SCHEDULE

THE UNIVERSITY OF NEW SOUTH WALES

(T AG855267)

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Randwick

PRINTED ON 29/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

29/9/2017 10:02AM

FOLIO: 6/13997

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 3965 FOL 192

Recorded	Number	Type of Instrument	C.T. Issue
16/2/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
12/9/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
25/8/1997		AMENDMENT: LOCAL GOVT AREA	
21/10/2002	9050274	TRANSMISSION APPLICATION	EDITION 1
3/3/2017	AM204836	TRANSFER	EDITION 2

*** END OF SEARCH ***

Form: 03TA
Release: 1.1
www.lpi.nsw.gov.au

TRANSMISSION APPLICATION



New South Wales
Section 93 Real Property Act 1900

9050274B

STAMP DUTY

PRIVACY NOTE: this information is legally required and will become part of the public record 0001150785-001

Office of State Revenue use only

SECTION 57

DUTY

\$ *****10.00

(A) LAND

Torrens Title

FOLIO IDENTIFIER VOLUME 3965 FOLIO 152

Now 6/13947

(B) REGISTERED DEALING

Number

Torrens Title

(C) LODGED BY

Delivery
Box

864L

Name, Address or DX and Telephone

TRESS COCKS & MADDOX, LAWYERS
LEVEL 20, 135 KING STREET, SYDNEY
DX 123 SYDNEY TEL: 9221 2744
Reference: TXN/GJE 20 7514

CODE

TA

(D) DECEASED REGISTERED PROPRIETOR

VICTORIA SMOLJO

(E) APPLICANT

ANTHONY SMOLJO AND MARIA SMOLJO
(TENANTS IN COMMON IN EQUAL SHARES)

- (F) The applicant, being entitled as DEVISEES of the will of the deceased registered proprietor (who died on 17 Jun 2002) pursuant to probate No. 114736/02 granted on 17 Sep 2002 to ANTHONY SMOLJO AND MARIA SMOLJO (a certified copy of which is lodged herewith) applies to be registered as proprietor of the estate or interest of the deceased registered proprietor in the abovementioned land

DATE 11th October 2002

- (G) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the Applicant.

Signature of witness:

Susan Gore

Signature of Applicant:

Anthony Smoljo
Maria Smoljo

Name of witness:

SUSAN GORE

Address of witness:

43 LENNOX ST
ROCKDALE 2216

- (H) CONSENT OF EXECUTOR, ADMINISTRATOR OR TRUSTEE
I,

of the deceased registered proprietor, hereby consent to this application.

Signature of witness:

Signature of

Name of witness:

Address of witness:

All handwriting must be in block capitals.

Office use only—

Evidence sighted/sighted and returned:

Probate
114736/02
200 17/10/2002

Page 1 of

LAND AND PROPERTY INFORMATION NSW

list

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 6/13997

SEARCH DATE	TIME	EDITION NO	DATE
29/9/2017	10:01 AM	2	3/3/2017

LAND

LOT 6 IN DEPOSITED PLAN 13997
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP13997

FIRST SCHEDULE

THE UNIVERSITY OF NEW SOUTH WALES

(T AM204838)

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Randwick

PRINTED ON 29/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

29/9/2017 10:02AM

FOLIO: A/33181

First Title(s): OLD SYSTEM

Prior Title(s): VOL 3153 FOL 143

Recorded	Number	Type of Instrument	C.T. Issue
7/10/1993		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
29/8/1997		AMENDMENT: LOCAL GOVT AREA	
7/11/2013	A1146844	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: A/33161

SEARCH DATE	TIME	EDITION NO	DATE
29/9/2017	10:01 AM	-	-

VOL 3153 FOL 143 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT A IN DEPOSITED PLAN 33161
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP33161

FIRST SCHEDULE

SHE LIUNG CHANG

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- * 2 E769177 MORTGAGE TO COMMONWEALTH BANK OF AUSTRALIA

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Randwick

PRINTED ON 29/9/2017

Locality: RANDY WICK

Cadastral Records Enquiry Report

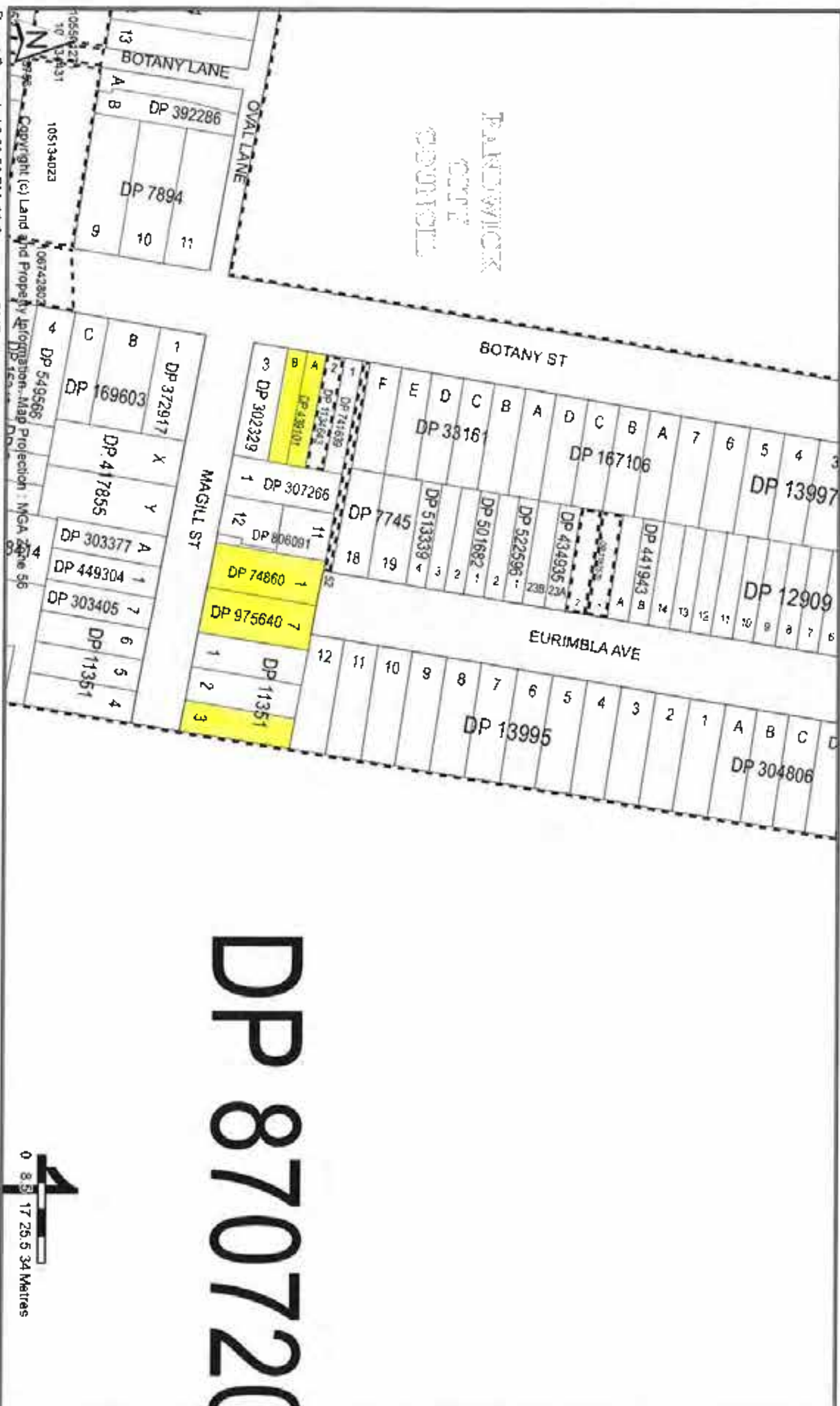
Requested Parcel : L019 DP 13995

LGA : RANDWICK

Parish : ALEXANDRIA

Identified Parcel : Lot 9 DP 13995

County: CUMBERLAND



The Land No 5 (for 1998, etc)

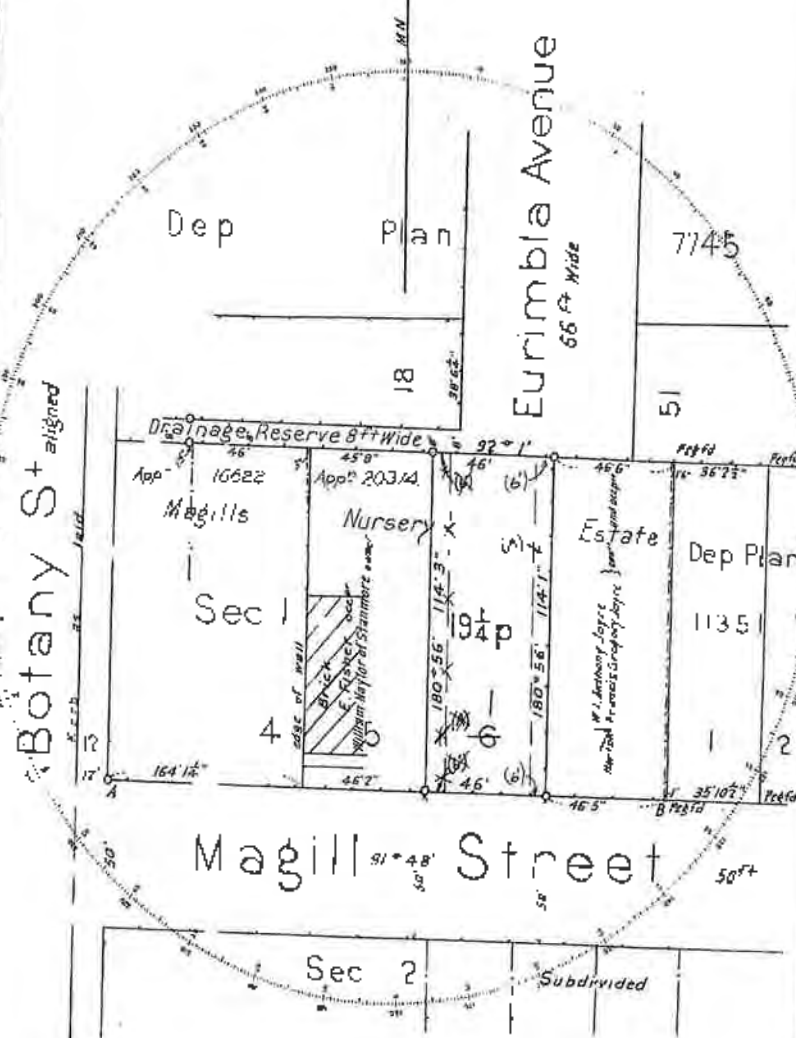
DP 74860

Municipality of Randwick
 Shire of L.G.A. RANDWICK
 P.A. 24860

PLAN

of Lot 6 Sec 1 of Magill's Nursery Estate at Randwick
 Parish of Alexandria County of Cumberland

Scale 40 Feet to an Inch



DP 74860	Area	Area
1	1.079	1.079
2	1.157	1.157
3	1.157	1.157
4	1.157	1.157
5	1.157	1.157
6	1.157	1.157
7	1.157	1.157
8	1.157	1.157
9	1.157	1.157
10	1.157	1.157
11	1.157	1.157
12	1.157	1.157
13	1.157	1.157
14	1.157	1.157
15	1.157	1.157
16	1.157	1.157
17	1.157	1.157
18	1.157	1.157
19	1.157	1.157
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25	1.157	1.157
26	1.157	1.157
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88	1.157	1.157
89	1.157	1.157
90	1.157	1.157
91	1.157	1.157
92	1.157	1.157
93	1.157	1.157
94	1.157	1.157
95	1.157	1.157
96	1.157	1.157
97	1.157	1.157
98	1.157	1.157
99	1.157	1.157
100	1.157	1.157

(A) RIGHT OF WAY - B741+B6

Sidney Bush Madsen " Sydney
 I, Sidney Bush Madsen, do hereby declare that the boundaries and areas shown in this plan are correct for the purposes of the said Act, and that the survey of the land in which the plan relates has been made by me or by some person acting under my authority and I make this solemn declaration conscientiously believing the same to be true, and by order of the provisions of the Statute in that behalf made.

Sidney Bush Madsen
 8th March 1973

Sidney Bush Madsen
 Date of Survey 8th March 1973

Survey made at Sydney A.B.

A true and correct copy of the original plan is deposited in the office of the Registrar of Land.

LOT NUMBER AMENDED IN L.P.I./NSW VIDE 2009/2001
 SITE OF 14.40.00 AMENDED IN L.P.I. REP: 2007/2189
 6/11/2001

1327.1

J.F.81

MACILL'S NURSERY

FOR OFFICE
 USE ONLY 1327.1

Traced from Copy/Handwritten 1995

RANDWICK

Sheet 8

Ph. Alexandria
 Co. O'land

W. 55 W. 100

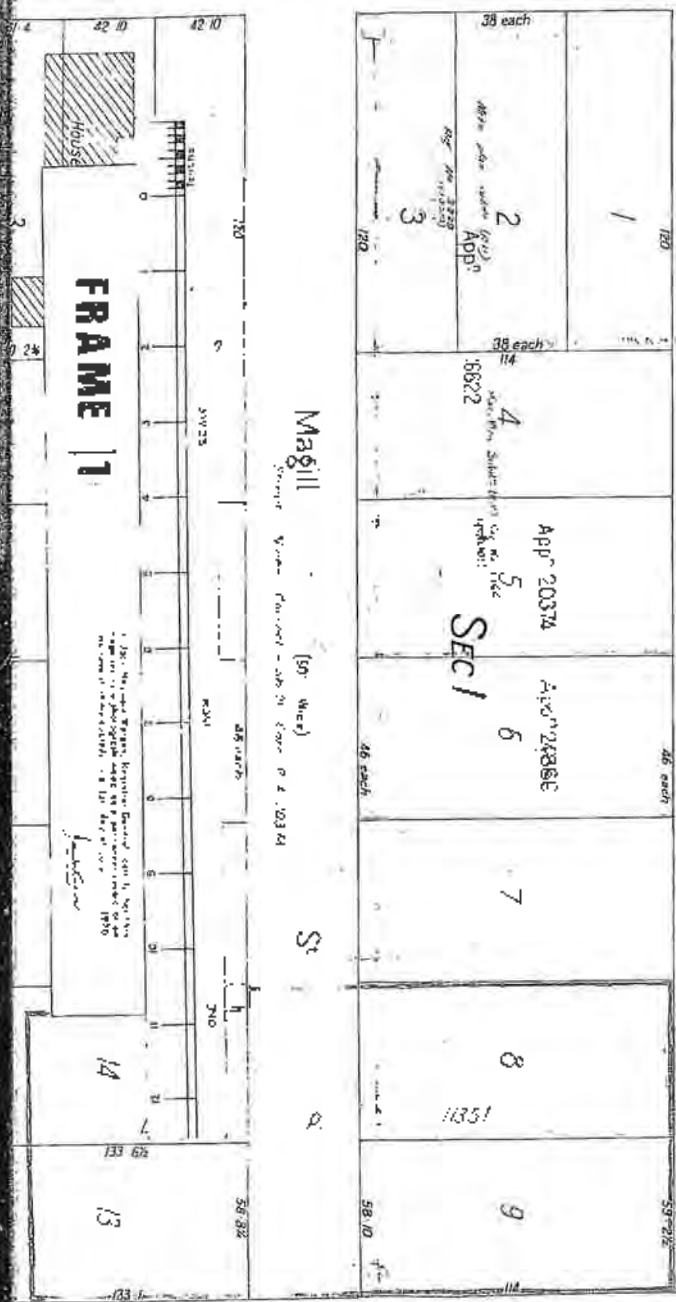
Piercing

1995

71	C. 011
72	217-44

1327(4)

Water Reserve
 Botany St



FRAME 1

Maill

(90' W. 100')

St

P

Asylum

Grounds

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 2:55PM

FOLIO: 3/11351

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 3524 FOL 84

Recorded	Number	Type of Instrument	C.T. Issue
-----	-----	-----	-----
18/2/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
21/6/1990		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
28/8/1997		AMENDMENT: LOCAL GOVT AREA	

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 3/11351

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	2:54 PM	-	-

VOL 3524 FOL 84 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT 3 IN DEPOSITED PLAN 11351
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP11351

FIRST SCHEDULE

ROSA SPADA

(ND W399258)

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Randwick

PRINTED ON 28/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 2:55PM

FOLIO: 7/97564C

First Title(s): OLD SYSTEM

Prior Title(s): CA29487

Recorded	Number	Type of Instrument	C.T. Issue
25/5/1988	CA29487	CONVERSION ACTION	FOLIO CREATED EDITION 1
1/9/1997		AMENDMENT: LOCAL GOVT AREA	
14/7/1998	5123191	CHANGE OF NAME	
14/7/1998	5123192	MORTGAGE	EDITION 2
22/5/2006	AC319915	REQUEST	
24/10/2006	AC692991	DISCHARGE OF MORTGAGE	
24/10/2006	AC692992	TRANSFER	
24/10/2006	AC692993	MORTGAGE	EDITION 3
9/11/2007	AD550023	DISCHARGE OF MORTGAGE	
9/11/2007	AD550024	MORTGAGE	EDITION 4
20/2/2008	AD777398	POSITIVE COVENANT	
20/2/2008	AD777399	REQUEST	
17/4/2008	AD898215	CHANGE OF NAME	EDITION 5
2/7/2008	AR64435	DISCHARGE OF MORTGAGE	EDITION 6
2/7/2008	AR64436	CAVEAT	
12/10/2011	AG552914	WITHDRAWAL OF CAVEAT	
20/5/2013	AI1741342	CAVEAT	
25/9/2014	AI914215	WITHDRAWAL OF CAVEAT	
5/3/2015	AJ309125	CAVEAT	
1/6/2015	AG526848	WITHDRAWAL OF CAVEAT	

*** END OF SEARCH ***

✓ 97-10CN Licence Number
✓ 37Y/0097/95

Application to Record
CHANGE OF NAME

Real Property Act 1900
Crown Lands Consolidation Act 1900
Western Lands Act 1901

5123191 B



(A) LAND

Show no more than 20 References to Title

7/975640

(B) REGISTERED DEALING

If applicable.

(C) LODGED BY

L.T.O. Box

37Y

Name, Address or DX and Telephone

WESTPAC BANKING CORPORATION ARBN 007 457 141

1 King Street, Concord West, N.S.W. 2138

Tel: 9767-0000 Fax: 9767-0481

REFERENCE (max. 15 characters)

03002827-RT1-F

(D) REGISTERED PROPRIETOR

whose name is to be changed

Theofilos Kazonis

(E) NEW NAME

In full.

CN

Theos Kazonis

(F) I, the Registered Proprietor, apply to have my New Name recorded in the Register in respect of the above Land.

(G) STATUTORY DECLARATION BY THE APPLICANT

I, Theos Kazonis solemnly and sincerely declare that

♦ I am identical with the Registered Proprietor referred to above;

♦ Theos is my abbreviated name.

I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act, 1900, and I certify this application correct for the purposes of the Real Property Act 1900.

Made and subscribed at PAGWOOD in the State of New South Wales on 1 July 1998 in the presence of

Signature of Witness

GEORGE TERRY JR.

Name of Witness (BLOCK LETTERS)

LEVEL 6 EASTGROVE PAGWOOD

Address of Witness

Signature of Applicant

(To be witnessed by a Prescribed Functionary such as; Justice Of The Peace or Solicitor)

Form: 01T
Release: 2.1
www.lpi.nsw.gov.au



TRANSFER

New South Wales
Real Property Act 1900



AC692992L

PRIVACY NOTE: this information is legally required and will

STAMP DUTY

Office of State Revenue use only

NSW Treasury
Client No: 94611209 1749
Duty: 62.00 Trans No: 3813 109
Aest details:

(A) TORRENS TITLE

7/975640

(B) LODGED BY

Delivery Box	Name, Address or DX and Telephone	CODES
178E	LLPN:123848W ESPREEON DX 1494 SYDNEY 02 9283 5111 Reference: ELLIOT-AUSTRALIAN	T TW (Sheriff)

(C) TRANSFEROR

THEOS KAZONIS & MARIA KAZONIS

(D) CONSIDERATION The transferor acknowledges receipt of the consideration of \$ 909,900.00 and as regards

(E) ESTATE the land specified above transfers to the transferee an estate in fee simple

(F) SHARE TRANSFERRED

(G) Encumbrances (if applicable):

(H) TRANSFEE

AUSTRALIAN MERCHANT SERVICES PTY LTD ACN 090 906 344

(I)

TENANCY:

(J) DATE

20-10-2006

I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of witness:

Signature of transferor:

theos kazonis

Name of witness:

ANNA KAZONIS

Address of witness:

8 MACGILL ST RANDWICK

Certified for the purposes of the Real Property Act 1900 by the person whose signature appears below.

Signature:

Signatory's name:

BARRY AUBIN

Signatory's capacity:

transferee's licensed conveyancer

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 7/975640

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	2:54 PM	6	2/7/2008

LAND

LOT 7 IN DEPOSITED PLAN 975640
AT RANDWICK
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP975640

FIRST SCHEDULE

8 MAGILL STREET PTY LIMITED (CN AD998215)

SECOND SCHEDULE (4 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
- 3 AD777398 POSITIVE COVENANT
- 4 AD777398 RESTRICTION AS TO USER (S.88E(3) CONVEYANCING ACT, 1919)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Randwick

PRINTED ON 28/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 2:55PM

FOLIO: 177486C

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 3513 FOL 209

Recorded	Number	Type of Instrument	C.T. Issue
2/9/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
18/6/1990		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
29/8/1997		AMENDMENT: LOCAL GOVT AREA	
24/3/1999	5703500	TRANSMISSION APPLICATION	EDITION 1
8/5/2000	6761296	TRANSFER	
8/5/2000	6761296	MORTGAGE	EDITION 2
19/11/2001	8126278	DEPARTMENTAL DEALING	
17/12/2009	AF203331	DISCHARGE OF MORTGAGE	
17/12/2009	AF203332	MORTGAGE	EDITION 3
2/5/2016	AK397296	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

Licence: 026CN/0528/96

**TRANSMISSION
APPLICATION**New South Wales
Section 93 Real Property Act 1900

5703500H

Instructions for filling out
this form are available
from the Land Titles Office

Office of State Revenue use only

00'01\$ 10/14/04*200 21 205* 462061
N.S.W. STAMP DUTY 190399 4502 12 002404914/01**(A) LAND**

Show no more than 20 titles.



FOLIO IDENTIFIER 6/17/3201+

1174860

1/74860

(B) REGISTERED DEALING
If applicable.**(C) LODGED BY**

LTO Box	Name, Address or DX and Telephone
1185C	ROSS CLARKE + ASS 40 BAYDON ST REFERENCE (15 character maximum): MALONE 98134.

(D) DECEASED REGISTERED PROPRIETOR MARY CATHERINE MALONEY**(E) APPLICANTS**

T A	JANICE MARGARET BAKER, HELEN PATRICIA BUTCHER and CATHERINE HILLIS TENANCY: Tenants in common in equal shares
----------------	---

- (F)** We, the Applicants, being entitled as Beneficiaries of the will of the Deceased Registered Proprietor (who died on 9 May 1998) pursuant to Probate No. 113821/98 granted on 18 September 1998 to Janice Margaret Baker and Robert Blair, apply to be registered as proprietor of the estate or interest of the Deceased Registered Proprietor in the Land specified above.

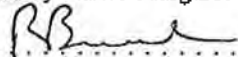
See Annexure "A" for Section (G)

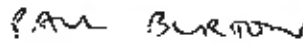
NOT SIGHTED
CANC

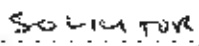
ANNEXURE "A"

(G) Certified correct for the purposes of the Real Property Act 1900. DATE

Signed in my presence by Janice Margaret Baker who is personally known to me.

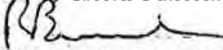

Signature of Witness

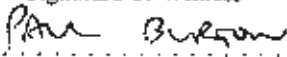

Name of Witness (BLOCK LETTERS)

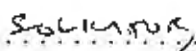
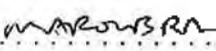
 
Address of Witness

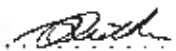

Signature of Janice Margaret Baker

Signed in my presence by Helen Patricia Butcher who is personally known to me.

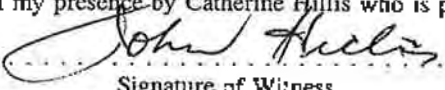

Signature of Witness

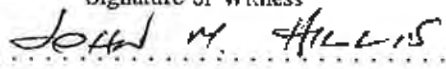

Name of Witness (BLOCK LETTERS)

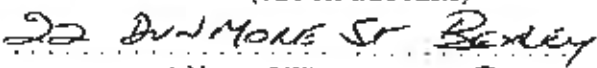
 
Address of Witness


Signature of Helen Patricia Butcher

Signed in my presence by Catherine Hillis who is personally known to me.


Signature of Witness


Name of Witness (BLOCK LETTERS)


Address of Witness

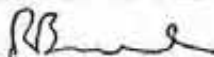

Signature of Catherine Hillis

163.99

(H)

CONSENT OF EXECUTOR OR ADMINISTRATOR

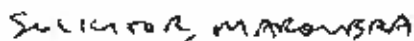
We, Janice Margaret Baker and Robert Blair Executors of the will of the Deceased Registered Proprietor, hereby consent to this application.



Signature of Witness



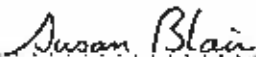
Name of Witness (BLOCK LETTERS)



Address of Witness



Janice Margaret Baker



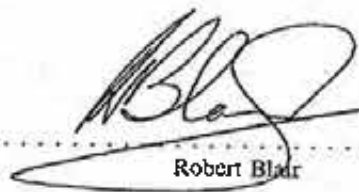
Signature of Witness



Name of Witness (BLOCK LETTERS)



Address of Witness



Robert Blair

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/74860

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	2:54 PM	3	17/12/2009

LAND

LOT 1 IN DEPOSITED PLAN 74860
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP74860

FIRST SCHEDULE

XIAO SHENG HE
YI HUA JIN

AS JOINT TENANTS

(T 6761296)

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 B74486 RIGHT OF WAY 1.83 METRE(S) WIDE AFFECTING THE
PART(S) OF THE LAND WITHIN DESCRIBED SHOWN IN PLAN
WITH B74486
- 3 AP203332 MORTGAGE TO COMMONWEALTH BANK OF AUSTRALIA

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 2:55PM

FOLIO: A/439101

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 7050 FOL 89

<u>Recorded</u>	<u>Number</u>	<u>Type of Instrument</u>	<u>C.T. Issue</u>
2/9/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
16/1/1990		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
29/8/1997		AMENDMENT: LOCAL GOVT AREA	
20/8/2007	AC354306	NOTICE OF DEATH	EDITION 1
10/3/2011	AG110973	TRANSMISSION APPLICATION	EDITION 2
5/4/2012	AG913193	TRANSFER	
5/4/2012	AG913194	MORTGAGE	EDITION 3

*** END OF SEARCH ***

Form: 02ND
Release: 2.5
www.lands.nsw.gov.au

NOTICE OF DEATH
New South Wales
Section 101 Real Property Act



AD354306V

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises by this form for the establishment and maintenance of the Real Property Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

(A) FOLIO OF THE REGISTER	F/I: A/439101		
(B) REGISTERED DEALING	Number		Folio of the Register
(C) LODGED BY	Document Collection Box 123680K 9432	Name, Address or DX and Telephone WSLS Reference: NICKERT.	CODE ND
(D) DECEASED JOINT TENANT	MARY VASSILIOU		
(E) SURVIVING JOINT TENANT	CHRIS VASSILIOU		

(F) I, the surviving joint tenant referred to above, apply to be registered as proprietor of the interest of the deceased joint tenant in the abovementioned folio of the Register.

(G) STATUTORY DECLARATION*

I Chris Vassiliou

solemnly and sincerely declare that the deceased joint tenant—

1. died on 17 June 2007; and
2. is identical with the deceased named in the death certificate No. 121588/2007 accompanying this application.

I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900, and I certify this application to be correct for the purposes of the Real Property Act 1900.

Made and subscribed at SYDNEY in the State of New South Wales
on 17/8/07 in the presence of—

Signature of witness: [Signature]

Signature of surviving joint tenant

Name of witness: NICHOLAS PERTICOLIS

Address of witness: F1, 178 BURWOOD ROAD
BURWOOD NSW.

C. VASSILIOU

Qualification of witness: ☐ Justice of the Peace ☒ Practising Solicitor ☐ Other [specify] _____

* As the Department of Lands may not be able to provide the services of a justice of the peace or other qualified witness, the statutory declaration should be signed and witnessed prior to lodgment of the form at Land and Property Information Division.

ALL HANDWRITING MUST BE IN BLOCK CAPITALS.
DEPARTMENT OF LANDS
LAND AND PROPERTY INFORMATION DIVISION
0702

Page 1 of 1

Office use only—
Evidence sighted and returned: [Signature]

**CT SIGHTED
CANC. & RET.**

Form: 03TA
Release: 3.1
www.lpma.nsw.gov.au

TRANSMISSION APPLICATION

New South Wales
Section 83 Real Property Act 1900

AG110973R

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

(A) TORRENTITLE

FOLIO: A/439101

(B) REGISTERED DEALING

Number

Torrens Title

(C) LODGED BY

Document
Collection
Box

Name, Address or DX, Telephone, and Customer Account Number if any

CODE

9435

WSLS 123680K

Reference:

NICK/PETROU

TA

(D) DECEASED REGISTERED PROPRIETOR

CHRIS VASSILIOU

(E) APPLICANT

VICKY PETROU

- (F) I, the applicant, being entitled as executor of the will of the deceased registered proprietor (who died on 27 November 2010) pursuant to probate granted on 21 February 2011 to Vicky Petrou (the original of which is lodged herewith) apply to be registered as proprietor of the estate or interest of the deceased registered proprietor in the abovementioned land.

DATE 09.03.2011.

- (G) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the Applicant.

Signature of witness:

Signature of Applicant:

Name of witness:

Address of witness:

NICHOLAS PERTSOULIS
FL 178 BURWOOD ROAD
BURWOOD NSW.

N. Petrou

(H) CONSENT OF EXECUTOR, ADMINISTRATOR OR TRUSTEE

I.

CLICK & PICK >>>

of the estate of the deceased registered proprietor, consent to this application.

Signature of witness:

Signature of

Name of witness:

Address of witness:

- (I) This section is to be completed where a notice of sale is required and the relevant data has been forwarded to LPMA through eNOS. The applicant certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. Full name: Signatures:

ALL HANDWRITING MUST BE IN BLOCK CAPITALS.

LAND AND PROPERTY MANAGEMENT AUTHORITY

Office use only—

Evidence sighted and returned:

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOI: A/439101

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	2:54 PM	3	5/4/2012

LAND

LOT A IN DEPOSITED PLAN 439101
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP439101

FIRST SCHEDULE

HELEN VLACHOS

(T AC913193)

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 G213653 CROSS EASEMENTS (S181 & CONVEYANCING ACT, 1919)
AFFECTING THE PARTY WALL(S) SHOWN ON THE COMMON
BOUNDARY OF LOTS A & B IN DP439101
- 3 AG913194 MORTGAGE TO WESTPAC BANKING CORPORATION

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Randwick

PRINTED ON 28/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 2:55PM

FOLIO: H/439101

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 6968 FOL 11

Recorded	Number	Type of Instrument	C.T. Issue
2/9/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
13/12/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
31/5/1995	0273146	DISCHARGE OF MORTGAGE	EDITION 1
20/8/1996	2394257	NOTICE OF DEATH	EDITION 2
29/8/1997		AMENIMENT: LOCAL GOVT AREA	

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: P/439101

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	2:54 PM	2	20/8/1996

LAND

LOT B IN DEPOSITED PLAN 439101
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP439101

FIRST SCHEDULE

DESPINA BAGHAS

(NO 2394257)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 G213653 CROSS EASEMENTS (S181 & CONVEYANCING ACT, 1919)
AFFECTING THE PARTY WALL(S) SHOWN ON THE COMMON
BOUNDARY OF LOTS A & B IN DP439101

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Randwick

PRINTED ON 28/9/2017

Cadastral Records Enquiry Report

Locality : RANDWICK

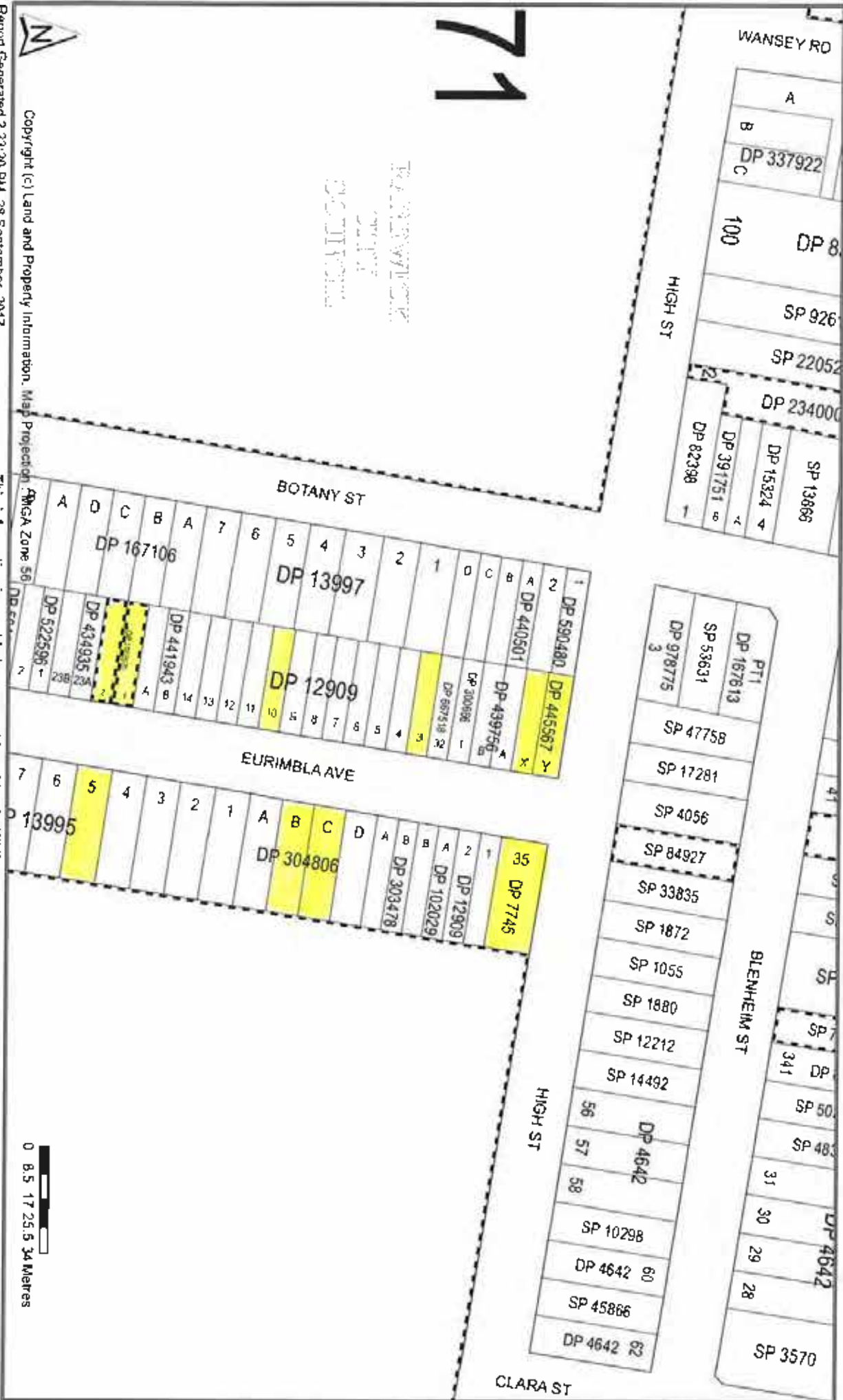
Requested Parcel : Lot 3 DP 12909

LGA : RANDWICK

Parish : ALEXANDRIA

Identified Parcel : Lot 3 DP 12909

County : CUMBERLAND



Copyright (c) Land and Property Information. Map Projection: MGA Zone 56

0 8.5 17 25.5 34 Metres

Locality : RANDWICK

Cadastral Records Enquiry Report

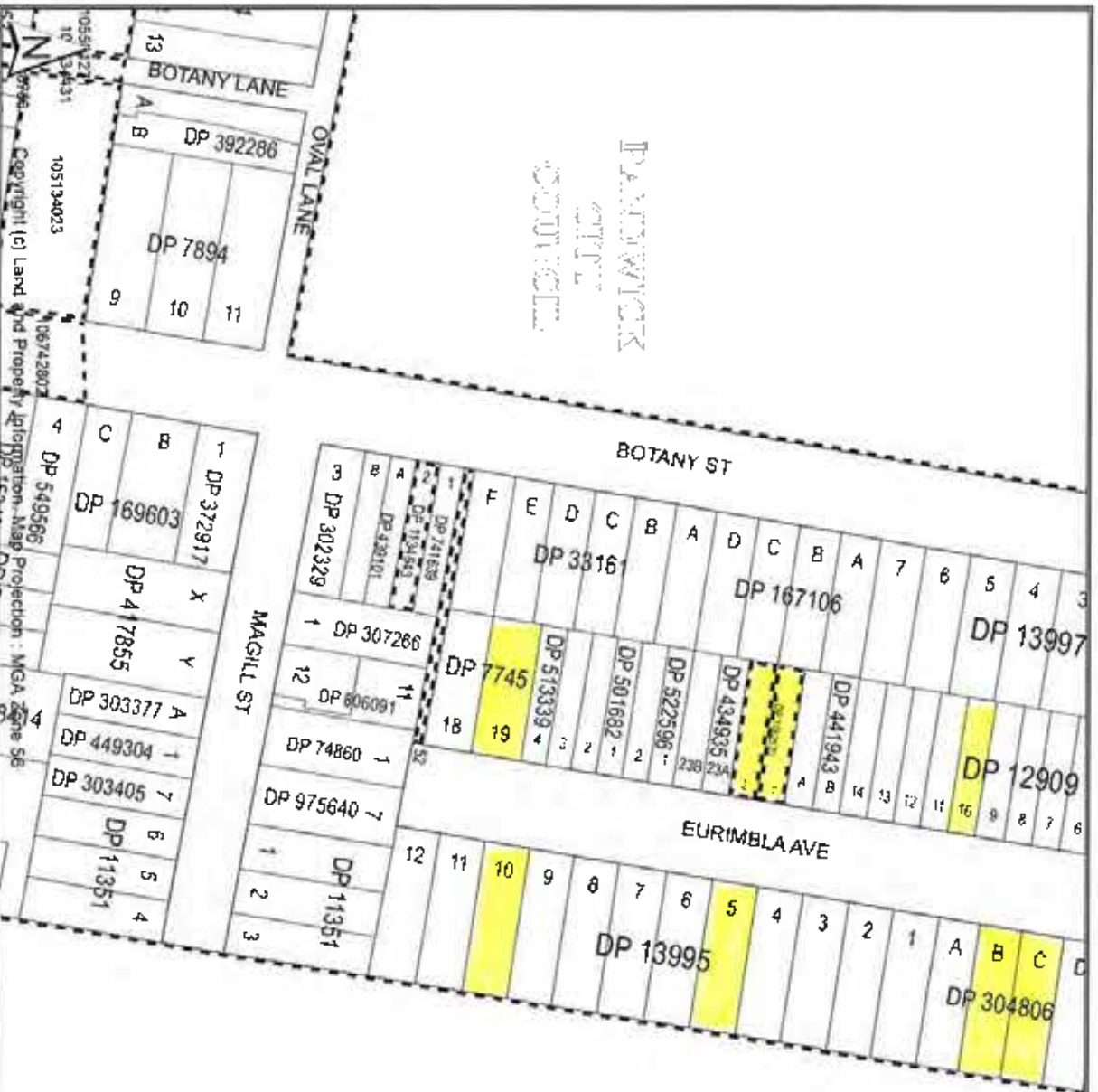
Requested Parcel : Lot 9 DP 13995

LGA : RANDWICK

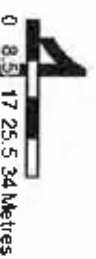
Parish : ALEXANDRIA

Identified Parcel : Lot 9 DP 13995

County : CUMBERLAND



DP 870720





REC'D 22 JAN 1919 2:30 PM

to not liable to Harp Duty
J.D. Waack
Acting Commissioner

COMMONWEALTH OF AUSTRALIA

The Lands Acquisition Act 1906. A435814

NOTIFICATION OF THE ACQUISITION OF LAND BY THE COMMONWEALTH.

IT is hereby notified and declared by His Excellency the Governor-General, acting with the advice of the Federal Executive Council, that the land hereunder described, together with all buildings and tanks (if any) thereon, has been acquired by the Commonwealth under the Lands Acquisition Act 1906, for the following public purpose, namely, for defence purposes, at Randwick, New South Wales.

DATED the 9th day of October, one thousand nine hundred and eighteen.

S.L. 18/2315.

R.M. FERGUSON, Governor-General.

By His Excellency's Command, C. M. GLEN,

Minister of State for the Territories.

DESCRIPTION (LAND REFERRED TO).

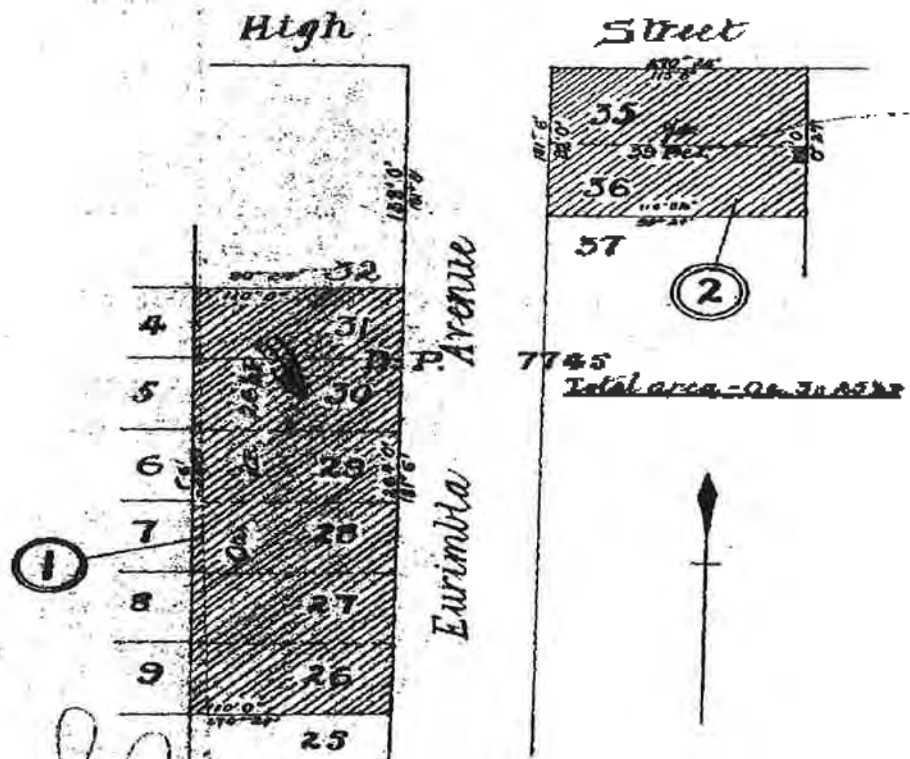
ALL those pieces or parcels of land containing a total area of 3 roods 25½ perches, more or less in the borough of Randwick, being lots 26, 27, 28, 29, 30, 31, 32, 33, and 34, shown on deposited plan No. 7745, parish of Alexandria, county of Cumberland, State of New South Wales, Commonwealth of Australia, shown hachured on plan hereunder, and more particularly described as follows:-

FINALLY - ALL that piece or parcel of land containing an area of 3 roods 25½ perches, more or less, being lots 26, 27, 28, 29, 30, and 31 of deposited plan No. 7745 commencing at the south-eastern corner of lot 32 of deposited plan No. 7745, being a point on the western side of Eurimbula-avenue bearing 181 deg. 6 min. and distant 130 feet from the intersection the southern side of High-street with the western side of Eurimbula-avenue; thence by part of the western side of Eurimbula-avenue bearing 181 deg. 6 min. 264 feet to the north-eastern corner of lot 25 deposited plan No. 7745; thence by the northern boundary of that lot bearing 270 deg. 24 min. 110 feet to the south-eastern corner of lot of deposited plan 7745; thence by the eastern boundaries of lots 8, 7, 6, 5, and 4 of deposited plan 7745, bearing 1 deg. 6 min. 264 feet to the south-western corner of lot 32 of deposited plan 7745 as mentioned; and thence by the southern boundary of that lot lying 90 deg. 24 min. 110 feet to the commencing point.

Order of Magistrate
for the acquisition of land
for the Commonwealth
for the purpose of
defence purposes
at Randwick, New South Wales

21. 10. 18 26. 10. 18 34. 10. 18

SECONDLY. ALL that piece or parcel of land containing an area of 39 perch, more or less, being lots 35 and 36 of deposit plan No. 7745: commencing at a point being the intersection the southern side of High-street with the eastern side of Eurimbla-avenue; thence part of the eastern side of Eurimbla-avenue bearing 181 deg. min. 92 feet to the north-western corner of lot 37 of deposited plan 7745; thence by the northern boundary of the lot bearing 90 d. 24 min. 115 feet 8 1/2 inches to the north-eastern corner of lot 37 of deposited plan 7745; thence by a line bearing 0 deg. 27 min. 9 feet to a point in the southern side of High-street before-mentioned; and thence by part of the southern side of High-street bearing 2 deg. 24 min. 115 feet 8 inches to the commencing point.



CERTIFICATE OF ACTING SOLICITOR-GENERAL.

THE Acting Solicitor-General of the Commonwealth of Australia hereby certifies that the writing and plan contained above are a true copy of the Notification of Acquisition published in the Commonwealth of Australia Gazette dated the seventeenth day of October One thousand nine hundred and eighteen, pages 2038 and 2039.

DATED the *seventeenth* day of *December* One thousand nine hundred and *eighteen*

Witness -

McDonnell
Acting for SECRETARY ATTORNEY GENERAL'S DEPT.

[Signature]
ACTING SOLICITOR-GENERAL OF
THE COMMONWEALTH OF AUSTRALIA.

TELEPHONES:

CITY 3723
- 3724



COMMONWEALTH OF AUSTRALIA

CROWN SOLICITOR'S OFFICE,

COMMONWEALTH BANK BUILDINGS,

MOORE STREET.

SYDNEY, 24th January, 1919.

The Registrar General,
Land Titles Office,
Sydney.

Sir,

A. 435814.
DEFENCE LAND - RANDWICK - N. S. W.
COMPULSORY ACQUISITION 17/10/1918.

Referring to my letter of 21st instant, I have the honor to request that a Consolidated Certificate of Title in the name of the Commonwealth of Australia be issued in respect of the lands comprised in this acquisition.

I have the honor to be,

Sir,

Your obedient Servant,

Gordon H. Castle

Crown Solicitor for the Commonwealth.

M.

25 JAN 1919
2063

LEPHONE:
CITY 3723
3724



A 435814

COMMONWEALTH OF AUSTRALIA

CROWN SOLICITOR'S OFFICE.

COMMONWEALTH BANK BUILDINGS,

MOORE STREET,

SYDNEY. 21st January 1919.

The Registrar-General,
Land Titles Office,
SYDNEY.

Sir,

DEFENCE LAND - EURIMBLA AVENUE - RANDWICK N.S.W.
COMPULSORY ACQUISITION. 17/ 10/ 1918

A copy of the notification of this acquisition, certified in accordance with the provisions of Sec. 20 of the Lands Acquisition Act 1906-1916, was to-day lodged at the Land Titles Office, Sydney, for the purpose of registration.

At the date of acquisition the relative instruments of title to the land acquired were -

Certificate of Title	dated	Regd. Vol.	Folio
"	8/10/14	2521	228
"	6/ 3/16	2650	54
"	23/ 5/16	2667	147
"	8/ 6/16	2672	2
"	17/11/16	2716	48
"	6/12/ 16	2719	162
"	6/12/ 16	"	163
"	6/12/ 16	"	164

The information as to title, prior to the date of acquisition, is furnished to you in order that the registration of the acquisition by you may be facilitated and is not furnished under any supposed or actual obligation upon the Commonwealth imposed by any Statute or otherwise as a condition of registration.

I have the honor to be,
Sir,
Your obedient servant,

Gordon H. Castle

Grown Solicitor for the Commonwealth.

H.



2nd 21st Nov. Lat 26 to 31 inc.
3rd 22nd Nov. Lat 35 to 36 St. 77 to 85
Town of Sandwich
phases and sea L. Cumberland

Lodged by
Gordon & Castle
Grover Solicitor for the Estate

Particulars, entered in Register Book
Vol 2521 fol 228 & of 3650 fol 54 Vol 2667 fol 147
" 2672 " 2 " 2716 " 48 " 2719 " 162
" 2719 fol 163 of 2671

the 20th March 1919 at 12 o'clock noon

Reliance
Register General

Legation
Mr. [Signature]

[illegible]

Dec 9. To Panz

23
18/3/1944
do sub. (2-7)

NEW SOUTH WALES

CERTIFICATE OF TITLE
PROPERTY ACT, 1900



14085147

Vol. 14003 Fol. 147

Appln No 7597

Prior Title Vol. 3358 Fol. 243



EDITION ISSUED

2 4 1980

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.

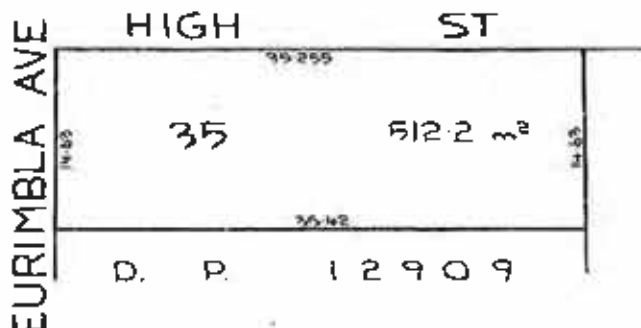
[Signature]

Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



R650085

N.A.

REDUCTION RATIO 1:400

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 35 in Deposited Plan 7745 in the Municipality of Randwick Parish of Alexandria County of Cumberland being part of 2.694 hectares granted to Simeon Henry Pearce and James Pearce on 1-11-1851.

FIRST SCHEDULE

THE COMMONWEALTH OF AUSTRALIA.

SECOND SCHEDULE

1. ~~R650085~~ Lease to The University of New South Wales. Date of Expiry 31-12-1984. W 532534.

GRN

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

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

27/9/2017 7:06AM

FOLIO: 35/1145

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 14085 FOL 147

<u>Recorded</u>	<u>Number</u>	<u>Type of Instrument</u>	<u>C.T. Issue</u>
21/8/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
30/11/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
20/12/1991	E149187	TRANSFER	EDITION 1
29/8/1997		AMENDMENT: LOCAL GOVT AREA	

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 35/7745

SEARCH DATE	TIME	EDITION NO	DATE
27/9/2017	7:06 AM	1	20/12/1991

LAND

LOT 35 IN DEPOSITED PLAN 7745
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP7745

FIRST SCHEDULE

UNIVERSITY OF NEW SOUTH WALES (C 8149187)

SECOND SCHEDULE (0 NOTIFICATIONS)

NIL

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

randwick

PRINTED ON 27/9/2017

NEW SOUTH WALES

Appln No. 7591

Prior Title Vol. 4794 Fols. 240 & 241

CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900

Vol. 14700 Fol. 203



CANCELLED

EDITION ISSUED

7 6 1982

SEE AUTO FOLIO

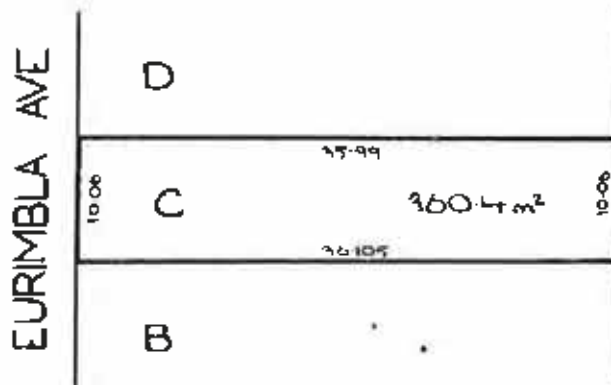
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

[Signature]
Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



T 37940 *[Signature]*

5

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot C in Deposited Plan 304806 in the Municipality of Randwick Parish of Alexandria County of Cumberland being part of 2.693 hectares granted to Simon Henry Pearce and James Pearce on 1-11-1851.

FIRST SCHEDULE

~~DAVID JOHN COWIE~~

SECOND SCHEDULE

GN1

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON
(Page 1) Vol. 14760 Fol. 203

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

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR

Registrar General

~~Stephen David Henstock and Carol Helen Henstock as joint tenants by Transfer T538687. Registered 23-5-1983~~~~Michael Kenneth Moore by Transfer X950147. Registered 2-11-1988.~~**CANCELLED**

SEE AUTO FOLIO

SECOND SCHEDULE (continued)

PARTICULARS

Registrar General

CANCELLATION

~~T538688 Mortgage to Commonwealth Savings Bank Australia. Registered 23-5-1983~~

M. X950148 Mortgage to Westpac Savings Bank Limited. Registered 2-11-1988.

X950146

NOTATIONS AND UNREGISTERED DEALINGS

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

Reg:K431366 / Doc:CT 14760-203 CT / Rev:23-D40-2010 / Sec:OR.SC / Pgs:ALL / Pte:27-Sep-2017 07:23 / Seq:2 of 2

RP 13

STAMP DUTY



Moore
Bony
Lodge



X950147

TRANSFER
REAL PROPERTY ACT, 1900

T

2	203	X
\$	42	

DESCRIPTION
OF LAND
Note (a)

Torrens Title Reference	If Part Only, Define Whole and Give Data	Location
Volume 14160 Folio 203	WHOLE	Municipality of Randwick Parish of Alexandria County of Cumberland
TRANSFEROR Note (b) <u>STEPHEN DAVID HENSTOCK and CAROL HELEN HENSTOCK</u>		

ESTATE
Note (c)

(the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of \$ 250,000.00
and transfers an estate in fee simple
in the land above described to the TRANSFEREE

TRANSFEREE
Note (d)

MICHAEL KENNETH MOORE of 19 Eurimble Avenue, Randwick

OFFICE USE ONLY

S

TENANCY
Note (e)

~~as joint tenants in common~~

PRIOR
ENCUMBRANCES
Note (f)

subject to the following PRIOR ENCUMBRANCES 1.
2. 3.

DATE 21st October 1908

We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900.

EXECUTION
Note (g)

Signed in my presence by the transferor who is personally known to me

Gail Ramsay
Signature of Witness
Gail Ramsay
Name of Witness (BLOCK LETTERS)
10 Beattie Street, Balmain
Address and occupation of witness

S. Henstock
C. H. Henstock
Signature of transferor

Note (g)

Signed in my presence by the transferee who is personally known to me

Garry Geissler
Signature of Witness
GARRY GEISLER
Name of Witness (BLOCK LETTERS)
11 GUNDA AVE LA PERAUE
Address and occupation of witness
x MANAGER

Michael Moore
Signature of transferee

TO BE COMPLETED
BY LODGING PARTY
Notes (h)
and (i)

LODGED BY Land Registry Corporation 1, 5 & 6, LAUNCE, 228 CITY STREET, SYDNEY, 2000 PHONE 220-2611 DELIVERY BOX NO. 37Y		LOCATION OF DOCUMENTS	
		CT	OTHER
			Herewith
			In L.R.O. with
			Produced by
Checked <u>OK</u>	Passed	REGISTERED 2-11-10 88	
Signed <u>RA-15</u>	Extra Fee	Secondary Directions	
		Delivery Directions	

NSW *****1.00

STAMP DUTY

4/10/98

26974

Y

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

27/9/2017 7:22AM

FOLIO: C/304806

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL. 14760 FOL. 203

Recorded	Number	Type of Instrument	C.T. Issue
29/7/1989		TITLE AUTOMATION PROJECT	NOT RECORDED FOLIO NOT CREATED
25/9/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
19/12/1991	E145014	MORTGAGE	EDITION 1
6/8/1993	1545603	DISCHARGE OF MORTGAGE	
6/8/1993	545604	DISCHARGE OF MORTGAGE	
6/8/1993	1545605	TRANSFER	EDITION 2
29/8/1997		AMENDMENT: LOCAL GOVT AREA	
1/10/1999	6240934	TRANSFER	EDITION 3
26/6/2017	AM507643	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 4
6/7/2017	AM544334	TRANSFER	EDITION 5

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

27/9/2017 7:22AM

FOLIO: 8/304806

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 7822 FOL 60

<u>Recorded</u>	<u>Number</u>	<u>Type of Instrument</u>	<u>C.T. Issue</u>
31/8/1989		TITLE AUTOMATION PROJECT	NOT RECORDED FOLIO NOT CREATED
30/10/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
14/2/1990	Y844539	MORTGAGE	EDITION 1
18/12/1995	0773842	DISCHARGE OF MORTGAGE	EDITION 2
29/8/1997		AMENDMENT: LOCAL GOVT AREA	
19/2/2004	AA433370	NOTICE OF DEATH	EDITION 3
22/7/2009	AE047176	CAVEAT	
16/12/2011	AG662852	WITHDRAWAL OF CAVEAT	
16/10/2011	AG625278	TRANSMISSION APPLICATION (DEVISEE, BENEFICIARY, NEXT OF KIN)	EDITION 4

*** END OF SEARCH ***

K 20551

R.P. 13



Fees:—
Lodgment
Endorsement

1665

(Trusts must not be disclosed in the transfer.)

Typing or handwriting in this instrument should not be written into any margin. Handwriting should be clear and legible and in permanent black non-copying ink.

If a last estate, strike out "in fee simple" and interline the required alteration.

State in full the name of the person who furnished the consideration money.

Show in BLOCK LETTERS the full name, postal address and description of the persons taking.

If more than one person is taking, state whether they hold as joint tenants or tenants in common.

The description may refer to the defined residue of the land in a certificate or grant (eg. "and being residue after Transfer No. ") or may refer to parcels shown in Town or Parish Maps issued by the Dept. of Lands or shown in plans filed in the Office of the Registrar General (eg. "and being lot sec. D.P. "). Unless authorised by Reg. 53 of the Conveyancing Act Regulations, 1961, a plan may not be annexed to or endorsed on this transfer form.

A very short note will suffice.

Execution in New South Wales may be proved if this instrument is signed or acknowledged before the Registrar General, or Deputy Registrar General, or a Notary Public, a J.P., or Commissioner for Affidavits, to whom the Transferor is known, otherwise the attesting witnesses should appear before one of the above functionaries who having questioned the witness should sign the certificate on the back of this form.

As to instruments executed elsewhere, see Section 107 of the Real Property Act, 1900, Section 158 of the Conveyancing Act, 1919, and Section 32A of the Evidence Act, 1908.

Repeat attestation if necessary.

If the Transferor or Transferee signs by a mark, the attestation must state "that the instrument was read over and explained to him, and he appeared fully to understand the same."

I, BERYL JEAN HEY of Adamstown Heights, Married Woman

(herein called transferor)

being registered as the proprietor of an estate in fee simple in the land hereinafter described, subject, however, to such encumbrances, liens and interests as are notified hereunder, in consideration of

SEVEN THOUSAND TWO HUNDRED AND FIFTY POUNDS

(£ 7,250)

(the receipt whereof is hereby acknowledged) paid to me by

LAWRENCE KENNETH WONG and ENID WONG

do hereby transfer to

LAWRENCE KENNETH WONG of 139 Darley Road, Randwick, Engineer and ENID WONG
of the same address his wife

(herein called transferee)* as joint tenants

ALL such my Estate and Interest in ALL THE land mentioned in the schedule following:—

County	Parish	Reference to Title			Description of Land (if part only)*
		Whole or Part	Vol.	Fol.	
Cumberland	Alexandria	Whole	7137	161	

ENCUMBRANCES, &c., REFERRED TO*

N I L.

Signed at Newcastle the 27th day of May, 1965.

Signed in my presence by the transferor
BERYL JEAN HEY
WHO IS PERSONALLY KNOWN TO ME

B. J. Hey
Solicitor

B. J. Hey
Transferor*

Signed

Signed in my presence by the transferee
LAWRENCE KENNETH WONG & ENID WONG
WHO IS PERSONALLY KNOWN TO ME

I Accepted, and I hereby certify this Transfer to be correct for the purposes of the Real Property Act, and that I am the solicitor for the said Lawrence Kenneth Wong and Enid Wong whose signatures cannot be obtained without difficulty and delay.

Solicitor for Transferee(s)

* power of attorney, the original power must be registered in the Miscellaneous Register, and produced with each dealing, and the back of form signed by the attorney below a witness.

At the above Certificate be signed by each Transferee or his Solicitor or Conveyancer, and renders any person guilty or negligent who also damages recoverable by parties injured. Acceptance by the Solicitor or Conveyancer (who must sign his own name) only when the signature of the Transferee cannot be obtained without difficulty, and when the instrument does not impose a condition when the instrument contains some special covenant by the Transferee or is subject to a mortgage, encumbrance or lease.

* The words referred should be scored through with the pen, and those substituted written over them, the alteration being noticed in the attestation.

16691D

THIS SPACE TO BE LEFT FREE FROM NOTATION

NOT TO BE ALTERED BY ERASURE—See Foot Note

K 20551

No.

PARTIAL DISCHARGE OF MORTGAGE
(N.B.—Before execution read marginal note)

LOANED BY: HENRY DAVIS YORK & Co

Address: 40 MARTIN PLACE

Phone No.: 28-1535

I,

mortgages under Mortgage No.
release and discharge the land comprised in the within transfer from such mortgage and all claims thereunder but without prejudice to my rights and remedies as regards the balance of the land comprised in such mortgage.

This discharge is appropriate to a transfer of part of the land in the Mortgage. The mortgagee should execute a formal discharge where the land transferred is the whole of or the residue of the land in the Certificate of Title or Group Grant or is the whole of the land in the mortgage.

Dated at this day of 19
Signed in my presence by

who is personally known to me.

Mortgagee.

MEMORANDUM AS TO NON-REVOCATION OF POWER OF ATTORNEY

(To be signed at the time of executing the within instrument)

Memorandum whereby the undersigned states that he has no notice of the revocation of the Power of Attorney registered No. Miscellaneous Register under the authority of which he has just executed the within transfer.

Strike out unnecessary words. Add any other matter necessary to show that the power is effective.

Signed at the day of 19
Signed in the presence of—

CERTIFICATE OF J.P., &c., TAKING DECLARATION OF ATTESTING WITNESS

Appeared before me at , the day of , one thousand nine hundred and the attesting witness to this instrument and declared that he personally knew the person signing the same, and whose signature thereto he has attested; and that the name purporting to be such signature of the said is own handwriting, and that he was of sound mind and freely and voluntarily signed the same.

To be signed by Registrar General, Deputy Registrar General, a Notary Public, J.P., Commissioner for Affidavits, or other functionary before whom the attesting witness appears. Not required if the instrument itself is signed or acknowledged before one of these parties.

INDEXED	MEMORANDUM OF TRANSFER	DOCUMENTS LODGED HEREWITH	
		To be filled in by person lodging dealing	
MA		1	4
		2	5
		3	6
Checked by	Particulars entered in Register Book	Received Docs. No.	
OK	25-6-1965	Receiving Clerk	
Paid (in S.D.B.) by	at 4 o'clock		
Signed by	Jawatson		
	Registrar General		

PROGRESS RECORD

	Initials	Date
Sent to Survey Branch		
Received from Records		
Draft written		
Draft examined		
Diagram prepared		
Diagram examined		
Draft forwarded		
Supt. of Engravers		
Cancellation Clerk		
Vol.		Fol.

The Fees, which are payable

- (a) £2 10s. 0d.
Certificate is to be in charge of 5s. 0d.
(b) A supplement
(i) when a
(ii) a new ca
(iii) a partial

FEES.

K 1105 5-457-W

Reg:R439221/Doc:DL K020551/Rmv:04-DL-2012/RR:OK-RH/RR:ALH/RR:78-8-201/07106/Seq:2 of 2

LEAVE THESE FEES FOR DEPARTMENTAL USE

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 7:06AM

FOLIO: 19/1745

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 7137 FOL 161

<u>Recorded</u>	<u>Number</u>	<u>Type of Instrument</u>	<u>C.T. Issue</u>
24/11/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
22/2/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
31/3/1989	Y140256	TRANSFER	EDITION 1
29/8/1997		AMENDMENT: LOCAL GOVT AREA	
28/6/1999	5935019	TRANSFER	
28/6/1999	5935020	MORTGAGE	EDITION 2
20/8/1999	6114548	MORTGAGE	EDITION 3
18/7/2002	8788428	DISCHARGE OF MORTGAGE	
18/7/2002	8788429	MORTGAGE	EDITION 4
8/8/2006	AC513511	DISCHARGE OF MORTGAGE	
8/8/2006	AC513512	MORTGAGE	EDITION 5
24/6/2010	AF578175	DISCHARGE OF MORTGAGE	
24/6/2010	AF578176	TRANSFER	
24/6/2010	AF578177	MORTGAGE	EDITION 6

*** END OF SEARCH ***

HP 13
1985



STAMP DUTY

CORRECT
0 F.S.F.
41



DB



Y140256

TRANSFER

REAL PROPERTY ACT, 1900

CB	1	Y	R/L
\$	A		

DESCRIPTION
OF LAND
Note (a)

Torrens Title Reference	If Part Only, Delete Whole and Give Details	Location
Volume 7137 Folio 161 19/7745	WHOLE	Randwick
GYULA BARANYAI and MARCIT BARANYAI		

TRANSFEROR
Note (b)

ESTATE
Note (c)

(the abovesigned TRANSFEROR) hereby acknowledges receipt of the consideration of \$ 360,000.00
and transfers an estate in fee simple
in the land above described to the TRANSFEREE

TRANSFEREE
Note (d)

CHIN LI LIU of 122 Birriga Road, Bellevue Hill	OFFICE USE ONLY
as joint tenants/tenants in common	S

TENANCY
Note (e)

PRIOR
ENCUMBRANCES
Note (f)

subject to the following PRIOR ENCUMBRANCES 1. 2. 3.

DATE 17 Jan., 1989

EXECUTION
Note (g)

We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900.
Signed in my presence by the transferor who is personally known to me

John Lloyd
Name of Witness (BLOCK LETTERS)
Bondi Junction
Address and occupation of Witness
Solicitor

Gyula Baranyi
Marcit Baranyi
Signature of Transferor

Note (h)

Signed in my presence by the transferee who is personally known to me

Signature of Witness
Name of Witness (BLOCK LETTERS)
Address and occupation of Witness

James Lee
Signature of Transferee's solicitor

090

TO BE COMPLETED
BY LODGING PARTY
Notes (h)
and (i)

S484

LODGED BY		LOCATION OF DOCUMENTS	
James Lee, Solicitor DX 1000 Sydney		CT	OTHER
Delivery Box Number		✓	Hereafter
			In () with
			Produced by
Checked <i>31</i>	Passed	Secondary Directions	
REGISTERED 31 MAR 1989		Delivery 2 Directions	
Stamp Duty 12/01/89		JAMES LEE DX 1000 Sydney	

OFFICE USE ONLY

NSW 3-4-4-4-4-4

Ref:Randwick /Src:M

Form: 97-01T

Licence: 10V/0096/96

Edi.Gn: 9804

TRANSFERNew South Wales
Real Property Act 1900**5935019L****STAMP DUTY**

Office of State Revenue use only

NEW SOUTH WALES DUTY

28-06-1999

0000922112-001

SECTION 18(2)

DUTY

\$ *****2,00

(A) TORRENS TITLE

If appropriate, specify the part or share transferred

Folio Identifier: 19/7745

(B) LODGED BY

LTO Box

472E

Name, Address or DX and Telephone

LANG, GELLERT & NOONAN
SOLICITORS

DX 12311 BOND JUNCTION TEL: 9389 8011

Reference (optional): *Moore***CODES**

T

TS (s713)

TW (Sheriff)

(C) TRANSFEROR

CHIN LI LIU

(D)

The transferor acknowledges receipt of the consideration of \$ 560,500.00 and as regards the land specified above transfers to the transferee an estate in fee simple.

(E)

Encumbrances (if applicable): 1. 2. 3.

(F) TRANSFeree

JOHN ALAN MOORE and TONIANN MOORE

(G)TENANCY: *Joint***(H)** We certify this dealing correct for the purposes of the Real Property Act 1900.DATE: *25/6/1999*

Signed in my presence by the transferor who is personally known to me.

Signature of witness: *X pao-kuei Lue*Signature of transferor: *CLL X 劉 麗 蓮 Liu Chin Li*Name of witness: *X PAO-KUEI LUE*Address of witness: *X 4F, No. 10, Lane 166, Section 1, Cheng Jen Road, Beitou, Taipei*

Signed in my presence by the transferee who is personally known to me.

Signature of witness:

Signature of transferee:

Name of witness:

Address of witness:

If signed on the transferee's behalf by a solicitor or licensed conveyancer, show the signatory's full name and capacity below:

Solicitor for Transferee
M. C. SWEENEY

All handwriting must be in block capitals.

A set of notes on this form (97-01T-2)

is available from the Land Titles Office.

Page 1 of 1
number additional pages sequentially

Checked by (LTO use):

2K
*hw**Witness over 18 years of age*

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 19/7745

SEARCH DATE	TIME	EDITION NO	DATE
-----	-----	-----	-----
28/9/2017	7:07 AM	6	24/6/2010

LAND

LOT 19 IN DEPOSITED PLAN 7745
LOCAL GOVERNMENT AREA PANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DE7745

FIRST SCHEDULE

GEORGE JOHN WILLIAMS
EMMA JANE ARMSON
AS JOINT TENANTS

(T A5578176)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 A5578177 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

pandwick

PRINTED ON 28/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 7:31AM

FOLIO: 24/7745

First Title(s): SEE PRIOR TITLE(S)

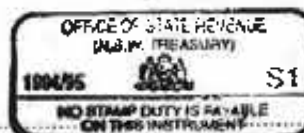
Prior Title(s): VOL 2873 FOL 114

Recorded	Number	Type of Instrument	C.T. Issue
3/3/1989		TITLE AUTOMATION PROJECT	NOT RECORDED FOLIO NOT CREATED
23/10/1990		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
18/4/1995	0158019	TRANSFER	EDITION 1
29/8/1997		AMENDMENT: LOCAL GOVT AREA	
1/8/2012	AH146929	TRANSMISSION APPLICATION (DEWISEE, BENEFICIARY, NEXT OF KIN)	EDITION 2
30/5/2013	DP1182570	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

TRANSFER

Real Property Act, 1900

0
158019 S**(A) LAND TRANSFERRED**Show no more than 20 References to Title.
If appropriate, specify the share transferred.FOLIO IDENTIFIER 24/7745 as regards all the
Transferor's estate or interest**(B) LODGED BY**

L.T.O. Box

Name, Address or DX and Telephone

IW

Benjamin + Mary
Dx 853 Sydney

REFERENCE (max. 15 characters): DP 12/3m 639c

(C) TRANSFEROR

PATRICIA ANNE SARKIS

(D) acknowledges receipt of the consideration of Pursuant to sealed orders of the Family Court of Australia
made and entered 24.1.95
and as regards the land specified above transfers to the Transferee an estate in fee simple**(E)** subject to the following ENCUMBRANCES 1. 2. 3.**(F) TRANSFEE**T
TS
(s713 LGA)
TW
(Sectff)

MICHEL MICHAEL SARKIS of 39 Gale Street, Mortlake

(G)

TENANCY:

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. DATED 10th April 1995
Signed in my presence by the Transferor who is personally known to me.

Signature of Witness

TIM WEISSEL
Solicitor (B. ATTORNEY)
P.O. BOX 227
CONCORD NSW 2137
DX 429 SYDNEYPatricia A Sarkis
Signature of Transferor

Signed in my presence by the Transferee who is personally known to me.

Signature of Witness

SANDRA JEAN MARLE
Name of Witness (BLOCK LETTERS)64 CASTLEBAGH STREET SYDNEY
Address of Witness

Signature of Transferee

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

CHECKED BY (office use only)

Form: 03AD
Edition: 1203

**TRANSMISSION
APPLICATION**
by a Devisee,
Beneficiary, or Next-of-kin
New South Wales



AH146929S

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only	NEW SOUTH WALES DUTY
01-06-2012	0006762742-001
SECTION 63(C)	
DUTY	\$ ***** 50.00

(A) **TORRENS TITLE**

24 / 7745

(B) **REGISTERED DEALING**

Number	Torrens Title
--------	---------------

(C) **LODGED BY**

Document Collection Box	Name, Address or DX, Telephone, and Customer Account Number if any	CODE
IN	SAM SARKIS 42 EURIMBLA AVE, RANDWICK 2031 Reference (optional): 0412767986	AD

(D) **DECEASED REGISTERED PROPRIETOR**

KHALIL SARKIS

(E) **APPLICANT**

TENANCY: SAM GEORGE SARKIS 1/2

- (F) I, the applicant, being entitled as beneficiary under the will/devisee under the will/west of kin of the deceased registered proprietor (who died on 29/11/2011) pursuant to probate/letters of administration No 2012/123472 granted on 8/5/2012 to SAM SARKIS (which is lodged herewith/a certified copy of which is lodged herewith) apply to be registered as proprietor of the estate or interest of the deceased registered proprietor in the land / registered dealing specified above.

DATE 01/08/2012
dd mm yyyy

- (G) I certify that I am an eligible witness and that the applicant signed this dealing in my presence. [See note* below].

Signature of witness: [Signature]
Name of witness: MRS D GUMBLEY
Address of witness: 33 EURIMBLA AVE, RANDWICK

Certified correct for the purposes of the Real Property Act 1900 by the applicant.

Signature of applicant: [Signature]

(H) **CONSENT OF EXECUTOR, ADMINISTRATOR OR TRUSTEE**

I, _____, executor of the will/administrator of the estate/trustee of the estate of the deceased registered proprietor, consent to this application.

Signature of witness: _____ Signature of executor/administrator/trustee: _____

Name of witness: _____

Address of witness: _____

- (I) This section is to be completed where a notice of sale is required and the relevant data has been forwarded through eNOS.

The applicant / applicant's solicitor / applicant's agent certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. _____ Full name: _____ Signature: _____

* s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.

ALL HANDWRITING MUST BE IN BLACK CAPITALS.

Evidence sighted/sighted and returned (office use only): [Signature]

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 1:35AM

FOLIO: 2/1182570

First Title(s): OLD SYSTEM

Prior Title(s): 24/1145

<u>Recorded</u>	<u>Number</u>	<u>Type of Instrument</u>	<u>C.T. Issue</u>
30/5/2013	DP1182570	DEPOSITED PLAN	FOLIO CREATED EDITION 1
16/7/2013	AH875959	TRANSFER WITHOUT MONETARY CONSIDERATION	EDITION 2
17/3/2014	AI428250	TRANSFER	EDITION 3

*** END OF SEARCH ***

Form: 011WC
Edition: 1212

①

TRANSFER

without monetary consideration

New South Wales
Real Property Act 1900



AH875959Q

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

2125

NEW SOUTH WALES DUTY

15-07-2013

0007187098-001

PARTITION

DUTIABLE AMOUNT \$ 11,000.00

(A) **TORRENS TITLE**

If appropriate, specify the part transferred

Lot 2 / 1182570

(B) **LODGED BY**

Document
Collection
Box

1W

Name, Address or DX, Telephone, and Customer Account Number if any

SAM G. SARKIS

42 EURIMBLA AVE, RANDWICK 2031

Reference (optional):

CODES

TZ

(C) **TRANSFEROR**

SAM GEORGE SARKIS

(D)

pursuant to/in consideration of NIL

(E) **ESTATE**

and as regards the land specified above the transferor transfers to the transferee an estate in fee simple.

(F) **SHARE**

TRANSFERRED

(G)

Encumbrances (if applicable):

1.

2.

3.

(H) **TRANSFEE**

MECHEL MICHAEL SARKIS

(I)

TENANCY:

DATE

30.10.2013

dd mm yyyy

(J) I certify that I am an eligible witness and that the transferor signed this dealing in my presence. [See note* below].

Signature of witness:

Adrian Steer

Name of witness:

Address of witness: 58 Turner Close, Blue Haven, NSW

I certify that I am an eligible witness and that the transferee signed this dealing in my presence. [See note* below].

Signature of witness:

Heather Burton

Name of witness:

Address of witness: 4 Cherry Pl, Murgorie Fields 2584

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor:

Certified correct for the purposes of the Real Property Act 1900 by the transferee.

Signature of transferee:

If signed on the transferee's behalf by a solicitor, licensed conveyancer or barrister, insert the signatory's full name and capacity below:

(K) The transferee / transferee's solicitor / transferee's agent, certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. Full name: Signature:

* s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.

ALL HANDWRITING MUST BE IN BLOCK CAPITALS

Page 1 of 1

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 2/1182570

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	7:36 AM	3	17/3/2014

LAND

LOT 2 IN DEPOSITED PLAN 1182570
AT RANDWICK
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1182570

FIRST SCHEDULE

THE UNIVERSITY OF NEW SOUTH WALES (T A1428250)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 DP1182570 CROSS EASEMENTS FOR PARTY WALLS (S. 89(1B) CONVEYANCING ACT, 1919) AFFECTING THE PARTY WALL(S) SHOWN IN THE TITLE DIAGRAM

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

randwick

PRINTED ON 28/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 7:31AM

FOLIO: 1/1182570

First Title(s): OLD SYSTEM

Prior Title(s): 24/7745

Recorded	Number	Type of Instrument	C.T. Issue
-----	-----	-----	-----
30/5/2013	DP1182570	DEPOSITED PLAN	FOLIO CREATED EDITION 1
16/7/2013	APB75958	TRANSFER WITHOUT MONETARY CONSIDERATION	EDITION 2

*** END OF SEARCH ***

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: DP1182570

SEARCH DATE	TIME	SECTION NO	DATE
28/9/2017	7:30 AM	2	16/7/2013

LAND

LOT 1 IN DEPOSITED PLAN 1182570
AT RANDWICK
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1182570

FIRST SCHEDULE

SAM GEORGE SARKIS

(T2 A9875958)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 DP1182570 CROSS EASEMENTS FOR PARTY WALLS (S. 88B CONVEYANCING ACT, 1919) AFFECTING THE PARTY WALL(S) SHOWN IN THE TITLE DIAGRAM

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

randwick

PRINTED ON 28/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 11:56AM

FOLIO: 10/12909

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 14085 FOL 21

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
21/8/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
30/11/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
28/8/1997		AMENDMENT: LOCAL GOVT AREA	
10/8/2001	7842726	DISCHARGE OF MORTGAGE	EDITION 1
30/8/2005	AB730347	CAVEAT	
14/10/2005	AB836837	TRANSFER	EDITION 2

*** END OF SEARCH ***

NEW SOUTH WALES

CERTIFICATE OF TITLE

PROPERTY ACT, 1980



14085021

Vol. 14000 Fol. 41

Appln No 7591

Prior Title Vol. 6350 Vol. 4

EDITION ISSUED

28 3 1980

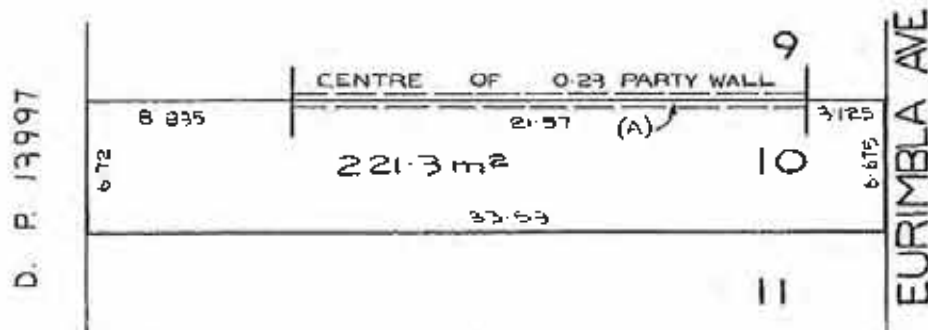
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



(A) CROSS EASEMENTS - F262275

REDUCTION RATIO 1:250

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 10 in Deposited Plan 12909 in the Municipality of Randwick Parish of Alexandria County of Cumberland being part of 2.694 hectares granted to Simeon Henry Pearce and James Pearce on 1-11-1851.

FIRST SCHEDULE

PUBLIC TRUSTEE

SECOND SCHEDULE

GRY

1. Reservations and conditions, if any, contained in the Crown grant above referred to.
2. F262275 Cross easements (Sec. 131B Conveyancing Act, 1919) affecting the party wall shown as burdened in the plan herein.

1979M7

Reg. Gen.
15.8.1980

1978M7

Reg. Gen.
15.8.1980

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

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

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR

~~Dea-Maria Da Silva-of-Bondy-Married-Woman~~

Ross Franklin Smiley by Transfer V554571 Registered 7-2-1985

INSTRUMENT

NATURE

NUMBER

Transfer-

06/05/2006

REGISTRATION

06661-6-3

10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044

✓

✓ 4904347 x

[illegible]

1

1554575

72-104

SECOND SCHEDULE (continued)

PARTICULARS

INSTRUMENT

NATURE	NUMBER
--------	--------

NUMBER

Modulgruppe	2020-04-10
-------------	------------

050029

to Guiseppe Cardillo of Huntington, Maryland.

Australia Savings Bank Limited Registered 7/2/1895

REGISTERED

0-00000

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1

CAN

1999

CANCELLED

— 1000 —

421

For

17085

Vol.

714

(Page 2 of 2 pages)

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

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 10-12909

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	1:49 PM	2	14/10/2005

LAND

LOT 10 IN DEPOSITED PLAN 12909
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP12909

FIRST SCHEDULE

UNIVERSITY OF NEW SOUTH WALES (T AB836887)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 F262295 CROSS EASEMENTS (S.181B CONVEYANCING ACT, 1919)
AFFECTING THE PARTY WALL ON THE COMMON BOUNDARY OF
LOTS 9 AND 10 IN DP12909

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

randwick

PRINTED ON 28/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 11:56AM

FOLIO: 3/12908

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 6515 FOL 46

Recorded	Number	Type of Instrument	C.T. Issue
21/11/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
8/3/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
6/10/1994	0568277	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 1
28/9/1995	0569256	TRANSFER	
28/9/1995	0569257	MORTGAGE	EDITION 2
28/8/1997		AMENDMENT: LOCAL GOVT AREA	
24/11/2003	AA189023	DEPARTMENTAL DEALING	
18/7/2006	AC464687	DISCHARGE OF MORTGAGE	
18/7/2006	AC464688	NOTICE OF DEATH	EDITION 3
15/2/2011	AG65980	MORTGAGE	EDITION 4
21/3/2011	AG124991	CAVEAT	
27/4/2011	AG195402	WITHDRAWAL OF CAVEAT	
27/4/2011	AG195403	DISCHARGE OF MORTGAGE	
27/4/2011	AG195404	TRANSFER	
27/4/2011	AG195405	MORTGAGE	EDITION 5
2/10/2014	AI893509	DISCHARGE OF MORTGAGE	
2/10/2014	AI893510	MORTGAGE	EDITION 6
23/6/2016	AK534244	DISCHARGE OF MORTGAGE	
23/6/2016	AK534245	MORTGAGE	EDITION 7

*** END OF SEARCH ***

sandwick

PRINTED ON 28/9/2017

47-01T

TRANSFER

Real Property Act, 1900



0
569256 K



0024
P
2

20/09/2010 10:00 AM
N.S.W. LAND TITLES OFFICE

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

FOLIO IDENTIFIER 3/12909

(B) **LODGED BY**

L.T.O. Box

3553

Name, Address or DX and Telephone

Greeves Wimmer Williams

BACK-SCHWARTZ VAUGHAN

DX-110 SYDNEY

BOX-890

REFERENCE (max. 15 characters):

3/12909

(C) **TRANSFEROR**

MARJORIE MARY MOSELY

(D) acknowledges receipt of the consideration of

\$275,000.00

and as regards the land specified above transfers to the Transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES**

1.

2.

3.

(F) **TRANSFEE**

T
TS
(s/13 LGA)
TW
(Sheriff)

ZOLY ORAVEC and MARIA ORAVEC

JOINT TENANTS

TENANCY:

(G)

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900.

DATED

25/4/95

Signed in my presence by the Transferor who is personally known to me.

[Signature]

Signature of Witness

P. H. Ryan Solicitor

Name of Witness (BLOCK LETTERS)

61/11-9 Castlereagh St.

Address of Witness

[Signature: Marjorie Mosely]

Signature of Transferor

Signed in my presence by the Transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

[Signature]

Signature of Transferee

F. J. BACK
SOLICITOR
SYDNEY

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

CHECKED BY (office use only)

0-569256

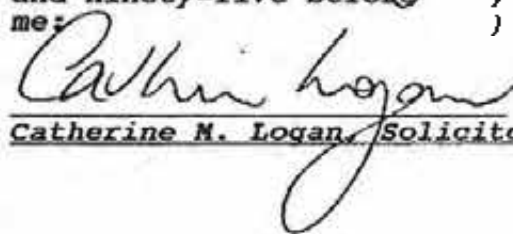
STATUTORY DECLARATION

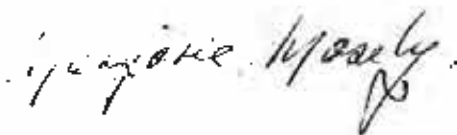
I, MARJORIE MARY MOSELY of 29 Day Avenue, Kensington in the State of New South Wales, do solemnly and sincerely declare as follows:-

1. I am the registered proprietor of the land comprised in Folio Identifier 3/12909 being the land situate at 14 Eurimbla Avenue, Randwick.
2. I am identical with Marjorie Mary Curry, the registered proprietor therein named. I was married to Bertram Arthur Mosely on the 17th day of April, 1957.

AND I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act, 1900.

SUBSCRIBED and declared
this 26th day of July
one thousand nine hundred
and ninety-five before
me:


Catherine M. Logan, Solicitor, Sydney



Form: 01T
Licence: 01-05-025
Licensee: LEAP Legal Software Pty Limited
Firm name: Lawyers Central

TRANSFER

New South Wales
Real Property Act 1900

AG195404E

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 98B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

Office of State Revenue
NSW Treasury
Client No: 118704950 3526
Duty: \$10.00 Tax: 6215658
Asst date: TS

(A) TORRENS TITLE

If appropriate, specify the part transferred
3/12909

(B) LODGED BY

Document Collection Box	Name, Address or DX, Telephone, and LLP Lawyers Central 98 Riley Street Darlinghurst NSW 2010 Reference (optional): BMA AF 21414	EDS/BPA PTY LTD 25 PIERSON ST LOCKLEYS SA 5032 TEL: 132558 LLPN: 123002H	CODES T JT TJ TW
-------------------------------	--	---	------------------------

(C) TRANSFEROR

Maria Oravec
14 Eurimbla Avenue, Randwick, NSW 2031

(D) CONSIDERATION

The transferor acknowledges receipt of the consideration of \$1,015,000.00 and as regards the land specified above transfers to the transferee an estate in fee simple.

(E) ESTATE

(F) SHARE TRANSFERRED

100%

(G) ENCUMBRANCES (if applicable):

(H) TRANSFEREE

Scott Andrew O'Brien
8/100 Botany Street, Kingsford, NSW 2032

(I)

TENANCY:

DATE

dd / mm / yyyy

- (J) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of witness:

ESTHER ERIKA SIMONS

Signature of transferor:

Maria Oravec

Name of witness: ESTHER ERIKA SIMONS

Address of witness:

19 BIRRELL STREET
QUEENS PARK NSW 2022

Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.

Signature:

Amanda Farmer

Signatory's name: Amanda Farmer

Signatory's capacity: Solicitor for the Transferee

- (K) The transferee certifies that the eNOS data relevant to this dealing has been submitted and stored under

eNOS ID No. 111331

Full name: Amanda Farmer

Signature:

Amanda Farmer

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 3/12909

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	1:49 PM	7	23/6/2016

LAND

LOT 3 IN DEPOSITED PLAN 12909
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP12909

FIRST SCHEDULE

SCOTT ANDREW O'BRIEN (T AG195404)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 G45149 CROSS EASEMENTS (S191 & CONVEYANCING ACT, 1919)
AFFECTING THE PARTY WALL(S) SHOWN ON THE COMMON
BOUNDARY OF LOTS 3 & 4 IN DP12909
- 2 AK534245 MORTGAGE TO COMMONWEALTH BANK OF AUSTRALIA

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

randwick

PRINTED ON 28/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 11:56AM

FOLIO: Y/445567

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL. 7916 FOL. 232

Recorded	Number	Type of Instrument	C.I. Issue
31/8/1989		TITLE AUTOMATION PROJECT	NOT RECORDED FOLIO NOT CREATED
20/10/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CI NOT ISSUED
24/8/1994	U558952	DISCHARGE OF MORTGAGE	
24/8/1994	U558953	DISCHARGE OF MORTGAGE	
24/8/1994	U558954	TRANSFER	
24/8/1994	U558955	TRANSFER	EDITION 1
7/4/1997	2954613	TRANSFER	
7/4/1997	2954614	TRANSFER	EDITION 2
29/8/1997		AMENDMENT: LOCAL GOVT AREA	

*** END OF SEARCH ***

Ref:randwick /Src:M

RP13



TRANSFER

Real Property Act, 1900



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558954 V

Office of State Revenue



OFFICE OF STATE REVENUE

STAMP DUTY (N.S.W. TREASURY) P59

10/04/95

DUTY \$2.00

1ST REC NO 200829511

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred

Folio Identifier Y/445567

(B) **LODGED BY**

L.T.O. Box

28A

Name, Address or DX and Telephone

GALLOWAY & CO.

Phone: 232-1011

Fax: 232-646

REFERENCE (max. 15 characters): Speed- Farrell L.T.O. Delivery 28A

(C) **TRANSFEROR**

SUSAN ANGELA FARRELL AS TO ALL OF HER
ONE-THIRD INTEREST

\$25,000.00

(D) acknowledges receipt of the consideration of

and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES**

1. 2. 3.

(F) **TRANSFEEE**

T

DAVID RODNEY FARRELL
of 4 Eurimbla Avenue, Randwick

as joint tenants in common

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900.

DATE OF EXECUTION 14 April 1987

Signed in my presence by the transferor who is personally known to me.

[Signature]

Signature of Witness

[Signature]

Name of Witness (BLOCK LETTERS)

17 CLAREMONT RD, ROSBY LANE, ROSBY

Address of Witness

[Signature]

Signature of Transferor

27-7-94

Signed in my presence by the transferee who is personally known to me.

[Signature]

Signature of Witness

D.A. ROSS

Name of Witness (BLOCK LETTERS)

60 Belmont St, Nth Parramatta

Address of Witness

[Signature]

Signature of Transferee

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND AND TILES OFFICE

7916 232

CT 301111
CAMP & RET

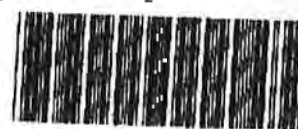
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SP 55

RP13



TRANSFER
Real Property Act, 1900



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558955 T

Office of State Revenue use only

OFFICE OF STATE REVENUE
1994/95 STAMP DUTY P50
DUTY \$ 2.00
Stamp Code 40/253 641

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

Folio Identifier Y/445567

(B) **LODGED BY**

L.T.O. Box

28A

Name, Address or DX and Telephone

GALLOWAY & CO.

Phone: 232-1911
DX 348

Fax: 232-1911
L.T.O. Delivery 28A

REFERENCE (max. 15 characters): Speed - Farrell

(C) **TRANSFEROR**

PETER JAMES FARRELL AS TO ALL OF HIS ONE
THIRD INTEREST

(D) acknowledges receipt of the consideration of \$32,500.00

and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following ENCUMBRANCES 1. 2. 3.

(F) **TRANSFEE**

T

DAVID RODNEY FARRELL
of 4 Burimbla Avenue, Randwick

as joint tenants/tenants in common

(G) We certify this dealing correct for the purposes of the Real Property Act, 1900. DATE OF EXECUTION 21st July 1997

Signed in my presence by the transferor who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

Signature of Transferor

26.7.94

Signed in my presence by the transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

Signature of Transferee

Ref:randwick /Src:M

RP13



1

TRANSFER

Real Property Act, 1900



2954613 0

Office of State Revenue use only



(A) LAND TRANSFERRED

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

Folio Identifier y/445567

(B) LODGED BY

David R Farrell
4 Eurimbla Ave
Randwick NSW 2031

L.T.O. Box

40

Name, Address or DX and Telephone

DAVID R FARRELL
4 EURIMBLA AVE
RANDWICK NSW 2031

REFERENCE (max. 15 characters):

(C) TRANSFEROR

David R Farrell

David Rodney Farrell

(D) acknowledges receipt of the consideration of

201

and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following ENCUMBRANCES

1. 2. 3.

(F) TRANSFEE

T

David Rodney Farrell and Ellen Elizabeth Linda Farrell
both of 4 Eurimbla Avenue, Randwick

(G) as joint tenants/tenants in common

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900.

DATE 15th June 1994.

Signed in my presence by the transferor who is personally known to me.

Farrell

Signature of Witness

ROBERT MICHAEL FARRELL

Name of Witness (BLOCK LETTERS)

20 RYKLES DE CHAMBERNE

Address of Witness

David R Farrell

Signature of Transferor

Signed in my presence by the transferee who is personally known to me.

Polans

Signature of Witness

SAN SOLOMONS

Name of Witness (BLOCK LETTERS)

3 MC MANUS PL LUGARNO

Address of Witness

Ellen Elizabeth Linda Farrell

Signature of Transferee

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

CHECKED BY (office use only)

FARRELL

15/6

**THIS IS THE ANNEXURE "A" IN MEMORANDUM OF TRANSFER FROM
DAVID RODNEY FARRELL (AS TRANSFEROR) TO DAVID RODNEY FARRELL
AND ELLEN ELIZABETH LINDA FARRELL (AS TRANSFEREE)**

We certify this dealing correct for the purposes of the Real Property Act 1900.

Signed in my presence by the
Transferor who is personally known
to me


.....
Signature of Witness


.....
Name of Witness


.....
David Rodney Farrell


.....
Address of Witness

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: Y/445567

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	1:49 PM	2	7/4/1997

LAND

LOT Y IN DEPOSITED PLAN 445567
LOCAL GOVERNMENT AREA RANDWICK
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP445567

FIRST SCHEDULE

ELLEN ELIZABETH LINDA PARRELL (T 2954614)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 H351628 CROSS EASEMENTS (S151 & CONVEYANCING ACT, 1919)
AFFECTING THE PARTY WALL(S) SHOWN ON THE COMMON
BOUNDARY OF LOTS X & Y IN DP445567

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

randwick

PRINTED ON 28/9/2017

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

28/9/2017 11:56AM

FOLIO: X/443567

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 7916 FOL 231

Recorded	Number	Type of Instrument	C.T. Issue
31/8/1989		TITLE AUTOMATION PROJECT	NOT RECORDED FOLIO NOT CREATED
20/10/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
6/9/1990	Z211984	DISCHARGE OF MORTGAGE	EDITION 1
19/9/1991	Z931624	TRANSFER	
19/9/1991	Z931625	MORTGAGE	EDITION 2
25/8/1992	E711977	DISCHARGE OF MORTGAGE	
25/8/1992	E711978	TRANSFER	
25/8/1992	E711979	MORTGAGE	EDITION 3
12/10/1992	E817657	MORTGAGE	EDITION 4
15/9/1993	I648836	DISCHARGE OF MORTGAGE	
15/9/1993	I648837	DISCHARGE OF MORTGAGE	
15/9/1993	I648838	TRANSFER	
15/9/1993	I648839	MORTGAGE	EDITION 5
1/2/1995	U983160	VARIATION OF MORTGAGE	EDITION 6
15/11/1996	2616070	DISCHARGE OF MORTGAGE	
15/11/1996	2616071	MORTGAGE	EDITION 7
29/8/1997		AMENDMENT: LOCAL GOVT AREA	
15/2/1999	5600516	DEPARTMENTAL DEALING	
12/2/2013	AH550543	DISCHARGE OF MORTGAGE	
12/2/2013	AH550544	TRANSMISSION APPLICATION (EXECUTOR, ADMINISTRATOR, TRUSTEE)	
12/2/2013	AH550545	TRANSFER	
12/2/2013	AH550546	MORTGAGE	EDITION 8

*** END OF SEARCH ***

randwick

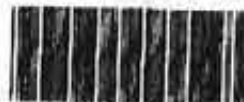
PRINTED ON 28/9/2017

2013
1985

STAMP DUTY



B



Z
931624 P

\$221,000.00

TRANSFER

REAL PROPERTY ACT, 1900

T

	of	
\$		

DESCRIPTION
OF LAND
Note (a)

TRANSFEROR
Note (b)

ESTATE
Note (c)

TRANSFeree
Note (d)

TEHANCY
Note (e)

PRIOR
ENCUMBRANCES
Note (f)

EXECUTION
Note (g)

Note (g)

TO BE COMPLETED
BY LODGING PARTY
Notes (h)
and (i)

OFFICE USE ONLY

Torrens Title Reference	If Part Only, Delete Whole and Give Details	Location
FOLIO IDENTIFIER X/445567	WHOLE	PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
JOSEPH TAT KONG TIONG TEONG		

(the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of \$221,000.00
and transfers an estate in fee simple
in the land above described to the TRANSFeree

MORESDAM PTY LIMITED	OFFICE USE ONLY
as joint tenants/tenants in common	

subject to the following PRIOR ENCUMBRANCES 1.

2. 3.

DATE

We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900.

Signed in my presence by the transferor who is personally known to me

[Signature]
Signature of Witness

KELVIN LOW
Name of Witness (BLOCK LETTERS)

1822 PATRICK ST, BLACKTOWN
Address and occupation of Witness

SOLICITOR

Signed in my presence by the transferee who is personally known to me

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address and occupation of witness

[Signature]
Signature of Transferee

[Signature]
Signature of Transferee

Solicitor for Transferee

LODGED BY CAG MOR100782	HUNT & HUNT SOLICITORS GATEWAY 1 MACQUARIE PLACE SYDNEY 2000 DX 214 SYDNEY TEL. 391 3000 FAX: 391 3000 420A	CT OTHER	LOCATION OF DOCUMENTS
Delivery Box Number			Herewith.
Checked	Passed		In L.T.O. with
Signed	Extra Fee		Produced by
		Secondary Directions	
		Delivery Directions	



19 SEP 1991

0787a JE CAG

RP13



TRANSFER

Real Property Act, 1900



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FD/P8551+100 *0 5002 268090

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

FOLIO IDENTIFIER X/445567

(B) **LODGED BY**

L.T.O. Box

Name, Address or DX and Telephone

O'Flaherty, Kearnes & Co.
Pty. Ltd.

REFERENCE (max. 15 characters):

~~MOA~~ RALLIS.

(C) **TRANSFEROR**

MORES DAM PTY. LIMITED (002 892 006)

(D) acknowledges receipt of the consideration of ONE HUNDRED & NINETY SIX THOUSAND DOLLARS (\$196,000.00)
and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. 2. 3.

(F) **TRANSFeree**

T

ANDREW VICTOR RALLIS and JULIE ANNE RALLIS
both of 2 Eurimbla Avenue, Randwick

as joint tenants/beneficial co-owners

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900.

DATE

Signed in my presence by the transferor who is personally known to me.

THE COMMON SEAL OF MORESDAM

Signature of Witness

PTY. LIMITED was hereunto

Name of Witness (BLOCK LETTERS)

affixed in the presence of:

Address of Witness



Director

Signature of Transferee

Secretary

Signed in my presence by the transferee who is personally known to me.

Robert H. Page
Signature of Witness

ROBERT HERMAN PAGE
Name of Witness (BLOCK LETTERS)

1607/57 WOODWARD ST
PREFERN Address of Witness 2016

R.A. McDONALD
Solicitor for

Signature of Transferee

RP13

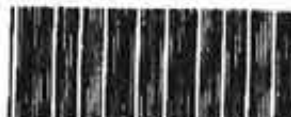


①

TRANSFER

Real Property Act, 1900

Office



Land Titles Office use only

I
648838 W

2
00.24 B

FO/ZE6ZSS100 40 S0F6 F63006

(A) **LAND TRANSFERRED**

Show no more than 20 References in Title.
If appropriate, specify the share transferred.

FOLIO IDENTIFIER X/445567

(B) **LODGED BY**

L.T.O. Box

655V

Name **M.F. O'HARA & CO.**

SOLICITORS

745-3511

REFERENCE (max. 10 characters) **655V DFT-SUNCORP**

(C) **TRANSFEROR**

ANDREW VICTOR RALLIS & JULIE ANNE RALLIS

(D) acknowledges receipt of the consideration of ... \$220,000.00

and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. 2. 3.

(F) **TRANSFEE**

T

ANGELIO THEODORE THEODORE as to one undivided one quarter share,
GRAHAM ALEXANDER TIER as to one undivided one quarter share,
MICHAEL ANDREW STERGOULIS as to one undivided one quarter share and
JOHN LAURENCE CANNON as to the remaining undivided one quarter share

~~as joint tenants/tenants in common~~

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900.

DATE OF EXECUTION 14-9-93

Signed in my presence by the transferor who is personally known to me.

✓ Jane R. Freud
Signature of Witness

✓ JAMES FREUD
Name of Witness (BLOCK LETTERS)

✓ 112 WALLIS ST WOOLLAHRA
Address of Witness

X [Signature]

X [Signature]
Signature of Transferor

Signed in my presence by the transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

[Signature]
Signature of Transferee's solicitor
JOHN CALOPEDOS

INSTRUCTIONS FOR FILING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

CHECKED BY (office use only)

Form: 011
Licence: 01-05-025
Licensee: LEAP Legal Software Pty Limited
Firm name: Hilton King Lawyers

TRANSFER
New South Wales
Real Property Act 1900



AH550545H

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

Office of State Revenue
NSW Treasury
Client No: 3323749
Duty: 11,240- Trans No: 6689431
Assl details:

(A) **TORRENS TITLE**

X/445567

(B) **LODGED BY**

Document
Collection
Box

Name, Address or DX, Telephone, and Customer Account Number if any

Level 5, Building C
1 Homebush Bay Drive
Rhodes NSW 2138

LLPN: 123011G

Reference:

13AW3503

CODES

T
TW

(C) **TRANSFEROR**

MIRIAM ALEXANDRA TIER

(D) **CONSIDERATION**

The transferor acknowledges receipt of the consideration of \$228,287.00 and as regards the abovementioned land transfers to the transferee an estate in fee simple.

(E) **ESTATE**

25/100TH SHARE

(F) **SHARES**

(G) **ENCUMBRANCES**

Encumbrances (if applicable):

(H) **TRANSFEE**

ANGELO THEODORE THEODORE, MICHAEL ANDREW STERGOLIS and JOHN LAURENCE CANNON

(I) **TENANCY**

TENANCY: IN COMMON IN EQUAL SHARES

DATE 21/05/2017

(J) I certify I am an eligible witness and that the transferor signed this dealing in my presence. [See note* below]

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of witness:

Name of witness:

Address of witness:

11/252 Pacific Highway
Greenwich NSW 2065

Signature of transferor:

Certified correct for the purposes of the Real Property Act 1900 on behalf of the transferee by the person whose signature appears below.

Signature:

Signatory's name: Gregory Beatrice Enzo Tortora
Signatory's capacity: Solicitor for the Transferee

(K) The transferee certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. 275570 Full name: ENZO TORTORA Signature:

* s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: X/445567

SEARCH DATE	TIME	EDITION NO	DATE
28/9/2017	1:49 PM	8	12/2/2013

LAND

LOT X IN DEPOSITED PLAN 445567
LOCAL GOVERNMENT AREA RANDWICK
PARTSH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP445567

FIRST SCHEDULE

ANGELO THEODORE THEODORE
MICHAEL ANDREW STERGIOULIS
JOHN LAURENCE CANNON

AS TENANTS IN COMMON IN EQUAL SHARES

(T AH550545)

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 H351628 CROSS EASEMENTS (S18) B CONVEYANCING ACT, 1919
AFFECTING THE PARTY WALL(S) SHOWN ON THE COMMON
BOUNDARY OF LOTS X & Y IN DP445567
- 3 AH550546 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

randwick

PRINTED ON 28/9/2017

Appendix D

Descriptive Notes

Borehole Log Results

Groundwater Field Sheets



Sampling

Sampling is carried out during drilling or test pitting to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on colour, type, inclusions and, depending upon the degree of disturbance, some information on strength and structure.

Undisturbed samples are taken by pushing a thin-walled sample tube into the soil and withdrawing it to obtain a sample of the soil in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Test Pits

Test pits are usually excavated with a backhoe or an excavator, allowing close examination of the in-situ soil if it is safe to enter into the pit. The depth of excavation is limited to about 3 m for a backhoe and up to 6 m for a large excavator. A potential disadvantage of this investigation method is the larger area of disturbance to the site.

Large Diameter Augers

Boreholes can be drilled using a rotating plate or short spiral auger, generally 300 mm or larger in diameter commonly mounted on a standard piling rig. The cuttings are returned to the surface at intervals (generally not more than 0.5 m) and are disturbed but usually unchanged in moisture content. Identification of soil strata is generally much more reliable than with continuous spiral flight augers, and is usually supplemented by occasional undisturbed tube samples.

Continuous Spiral Flight Augers

The borehole is advanced using 90-115 mm diameter continuous spiral flight augers which are withdrawn at intervals to allow sampling or in-situ testing. This is a relatively economical means of drilling in clays and sands above the water table. Samples are returned to the surface, or may be collected after withdrawal of the auger flights, but they are disturbed and may be mixed with soils from the sides of the hole. Information from the drilling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively low

reliability, due to the remoulding, possible mixing or softening of samples by groundwater.

Non-core Rotary Drilling

The borehole is advanced using a rotary bit, with water or drilling mud being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from the rate of penetration. Where drilling mud is used this can mask the cuttings and reliable identification is only possible from separate sampling such as SPTs.

Continuous Core Drilling

A continuous core sample can be obtained using a diamond tipped core barrel, usually with a 50 mm internal diameter. Provided full core recovery is achieved (which is not always possible in weak rocks and granular soils), this technique provides a very reliable method of investigation.

Standard Penetration Tests

Standard penetration tests (SPT) are used as a means of estimating the density or strength of soils and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, Methods of Testing Soils for Engineering Purposes - Test 6.3.1.

The test is carried out in a borehole by driving a 50 mm diameter split sample tube under the impact of a 63 kg hammer with a free fall of 760 mm. It is normal for the tube to be driven in three successive 150 mm increments and the 'N' value is taken as the number of blows for the last 300 mm. In dense sands, very hard clays or weak rock, the full 450 mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form.

- In the case where full penetration is obtained with successive blow counts for each 150 mm of, say, 4, 6 and 7 as:
4,6,7
N=13
- In the case where the test is discontinued before the full penetration depth, say after 15 blows for the first 150 mm and 30 blows for the next 40 mm as:
15, 30/40 mm

Sampling Methods

The results of the SPT tests can be related empirically to the engineering properties of the soils.

Dynamic Cone Penetrometer Tests / Perth Sand Penetrometer Tests

Dynamic penetrometer tests (DCP or PSP) are carried out by driving a steel rod into the ground using a standard weight of hammer falling a specified distance. As the rod penetrates the soil the number of blows required to penetrate each successive 150 mm depth are recorded. Normally there is a depth limitation of 1.2 m, but this may be extended in certain conditions by the use of extension rods. Two types of penetrometer are commonly used.

- Perth sand penetrometer - a 16 mm diameter flat ended rod is driven using a 9 kg hammer dropping 600 mm (AS 1289, Test 6.3.3). This test was developed for testing the density of sands and is mainly used in granular soils and filling.
- Cone penetrometer - a 16 mm diameter rod with a 20 mm diameter cone end is driven using a 9 kg hammer dropping 510 mm (AS 1289, Test 6.3.2). This test was developed initially for pavement subgrade investigations, and correlations of the test results with California Bearing Ratio have been published by various road authorities.



Description and Classification Methods

The methods of description and classification of soils and rocks used in this report are based on Australian Standard AS 1726-1993, Geotechnical Site Investigations Code. In general, the descriptions include strength or density, colour, structure, soil or rock type and inclusions.

Soil Types

Soil types are described according to the predominant particle size, qualified by the grading of other particles present:

Type	Particle size (mm)
Boulder	>200
Cobble	63 - 200
Gravel	2.36 - 63
Sand	0.075 - 2.36
Silt	0.002 - 0.075
Clay	<0.002

The sand and gravel sizes can be further subdivided as follows:

Type	Particle size (mm)
Coarse gravel	20 - 63
Medium gravel	6 - 20
Fine gravel	2.36 - 6
Coarse sand	0.6 - 2.36
Medium sand	0.2 - 0.6
Fine sand	0.075 - 0.2

The proportions of secondary constituents of soils are described as:

Term	Proportion	Example
And	Specify	Clay (60%) and Sand (40%)
Adjective	20 - 35%	Sandy Clay
Slightly	12 - 20%	Slightly Sandy Clay
With some	5 - 12%	Clay with some sand
With a trace of	0 - 5%	Clay with a trace of sand

Definitions of grading terms used are:

- Well graded - a good representation of all particle sizes
- Poorly graded - an excess or deficiency of particular sizes within the specified range
- Uniformly graded - an excess of a particular particle size
- Gap graded - a deficiency of a particular particle size with the range

Cohesive Soils

Cohesive soils, such as clays, are classified on the basis of undrained shear strength. The strength may be measured by laboratory testing, or estimated by field tests or engineering examination. The strength terms are defined as follows:

Description	Abbreviation	Undrained shear strength (kPa)
Very soft	vs	<12
Soft	s	12 - 25
Firm	f	25 - 50
Stiff	st	50 - 100
Very stiff	vst	100 - 200
Hard	h	>200

Cohesionless Soils

Cohesionless soils, such as clean sands, are classified on the basis of relative density, generally from the results of standard penetration tests (SPT), cone penetration tests (CPT) or dynamic penetrometers (PSP). The relative density terms are given below:

Relative Density	Abbreviation	SPT N value	CPT qc value (MPa)
Very loose	vl	<4	<2
Loose	l	4 - 10	2 - 5
Medium dense	md	10 - 30	5 - 15
Dense	d	30 - 50	15 - 25
Very dense	vd	>50	>25

Soil Descriptions

Soil Origin

It is often difficult to accurately determine the origin of a soil. Soils can generally be classified as:

- Residual soil - derived from in-situ weathering of the underlying rock;
- Transported soils - formed somewhere else and transported by nature to the site; or
- Filling - moved by man.

Transported soils may be further subdivided into:

- Alluvium - river deposits
- Lacustrine - lake deposits
- Aeolian - wind deposits
- Littoral - beach deposits
- Estuarine - tidal river deposits
- Talus - scree or coarse colluvium
- Slopewash or Colluvium - transported downslope by gravity assisted by water. Often includes angular rock fragments and boulders.



Rock Strength

Rock strength is defined by the Point Load Strength Index ($Is_{(50)}$) and refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects. The test procedure is described by Australian Standard 4133.4.1 - 2007. The terms used to describe rock strength are as follows:

Term	Abbreviation	Point Load Index $Is_{(50)}$ MPa	Approximate Unconfined Compressive Strength MPa*
Extremely low	EL	<0.03	<0.6
Very low	VL	0.03 - 0.1	0.6 - 2
Low	L	0.1 - 0.3	2 - 6
Medium	M	0.3 - 1.0	6 - 20
High	H	1 - 3	20 - 60
Very high	VH	3 - 10	60 - 200
Extremely high	EH	>10	>200

* Assumes a ratio of 20:1 for UCS to $Is_{(50)}$. It should be noted that the UCS to $Is_{(50)}$ ratio varies significantly for different rock types and specific ratios should be determined for each site.

Degree of Weathering

The degree of weathering of rock is classified as follows:

Term	Abbreviation	Description
Extremely weathered	EW	Rock substance has soil properties, i.e. it can be remoulded and classified as a soil but the texture of the original rock is still evident.
Highly weathered	HW	Limonite staining or bleaching affects whole of rock substance and other signs of decomposition are evident. Porosity and strength may be altered as a result of iron leaching or deposition. Colour and strength of original fresh rock is not recognisable
Moderately weathered	MW	Staining and discolouration of rock substance has taken place
Slightly weathered	SW	Rock substance is slightly discoloured but shows little or no change of strength from fresh rock
Fresh stained	Fs	Rock substance unaffected by weathering but staining visible along defects
Fresh	Fr	No signs of decomposition or staining

Degree of Fracturing

The following classification applies to the spacing of natural fractures in diamond drill cores. It includes bedding plane partings, joints and other defects, but excludes drilling breaks.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with some fragments
Fractured	Core lengths of 40-200 mm with some shorter and longer sections
Slightly Fractured	Core lengths of 200-1000 mm with some shorter and longer sections
Unbroken	Core lengths mostly > 1000 mm

Rock Descriptions

Rock Quality Designation

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index, defined as:

$$\text{RQD \%} = \frac{\text{cumulative length of 'sound' core sections} \geq 100 \text{ mm long}}{\text{total drilled length of section being assessed}}$$

where 'sound' rock is assessed to be rock of low strength or better. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e. drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

Stratification Spacing

For sedimentary rocks the following terms may be used to describe the spacing of bedding partings:

Term	Separation of Stratification Planes
Thinly laminated	< 6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	> 2 m

Symbols & Abbreviations

Douglas Partners



Introduction

These notes summarise abbreviations commonly used on borehole logs and test pit reports.

Drilling or Excavation Methods

C	Core drilling
R	Rotary drilling
SFA	Spiral flight augers
NMLC	Diamond core - 52 mm dia
NQ	Diamond core - 47 mm dia
HQ	Diamond core - 63 mm dia
PQ	Diamond core - 81 mm dia

Water

▷	Water seep
▽	Water level

Sampling and Testing

A	Auger sample
B	Bulk sample
D	Disturbed sample
E	Environmental sample
U ₅₀	Undisturbed tube sample (50mm)
W	Water sample
pp	Pocket penetrometer (kPa)
PID	Photo ionisation detector
PL	Point load strength Is(50) MPa
S	Standard Penetration Test
V	Shear vane (kPa)

Description of Defects in Rock

The abbreviated descriptions of the defects should be in the following order: Depth, Type, Orientation, Coating, Shape, Roughness and Other. Drilling and handling breaks are not usually included on the logs.

Defect Type

B	Bedding plane
Cs	Clay seam
Cv	Cleavage
Cz	Crushed zone
Ds	Decomposed seam
F	Fault
J	Joint
Lam	Lamination
Pt	Parting
Sz	Sheared Zone
V	Vein

Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

h	horizontal
v	vertical
sh	sub-horizontal
sv	sub-vertical

Coating or Infilling Term

cln	clean
co	coating
he	healed
inf	infilled
stn	stained
ti	tight
vn	veneer

Coating Descriptor

ca	calcite
cbs	carbonaceous
cly	clay
fe	iron oxide
mn	manganese
slt	silty

Shape

cu	curved
ir	irregular
pl	planar
st	stepped
un	undulating

Roughness

po	polished
ro	rough
sl	slickensided
sm	smooth
vr	very rough

Other

fg	fragmented
bnd	band
qtz	quartz

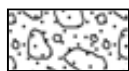
Symbols & Abbreviations

Graphic Symbols for Soil and Rock

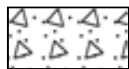
General



Asphalt



Road base



Concrete

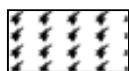


Filling

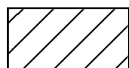
Soils



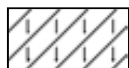
Topsoil



Peat



Clay



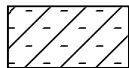
Silty clay



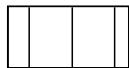
Sandy clay



Gravelly clay



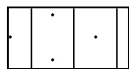
Shaly clay



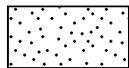
Silt



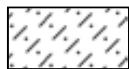
Clayey silt



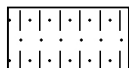
Sandy silt



Sand



Clayey sand



Silty sand



Gravel



Sandy gravel



Cobbles, boulders



Talus

Sedimentary Rocks



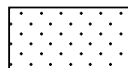
Boulder conglomerate



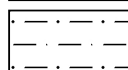
Conglomerate



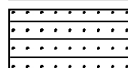
Conglomeratic sandstone



Sandstone



Siltstone



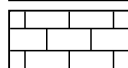
Laminite



Mudstone, claystone, shale

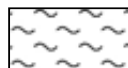


Coal

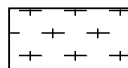


Limestone

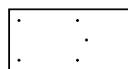
Metamorphic Rocks



Slate, phyllite, schist

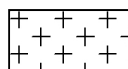


Gneiss

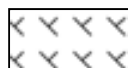


Quartzite

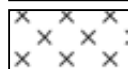
Igneous Rocks



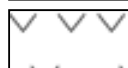
Granite



Dolerite, basalt, andesite



Dacite, epidote



Tuff, breccia



Porphyry

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 48.5 AHD
EASTING: 337072.8
NORTHING: 6245429.4
DIP/AZIMUTH: 90°/-

BORE No: 1
PROJECT No: 72505.11
DATE: 18 - 19/9/2017
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering						Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS	FR		Ex Low	Very Low	Low	Medium	High			Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %
	0.05	ASPHALTIC CONCRETE - typically <10mm diameter																				
	0.33	ROADBASE - dark grey, angular, igneous gravel, typically <30mm diameter																A				
	0.75	FILLING - grey-brown medium to coarse grained sand filling with some fine to medium grained sandstone gravel																A				
	1.3	0.7m: rootlets																A				
		SAND - pale grey, medium grained sand with some dark brown silty bands, damp, occasional rootlets																				
		SAND - medium dense, orange-brown, medium grained sand with a trace of clay, damp																				
																		S				9,12,10 N = 22
	3.4	SANDSTONE - very low strength, light grey medium grained sandstone with some low strength bands																				
	3.9	SANDSTONE - medium strength, slightly weathered then fresh, slightly fractured, light grey medium grained sandstone with some carbonaceous flecks																				
		5.37-5.61m: very low strength band with dark grey siltstone laminations																C	100	83		PL(A) = 0.89
																						PL(A) = 0.4
																						PL(A) = 0.09
																						PL(A) = 0.42
																						PL(A) = 0.71
																		C	100	99		PL(A) = 0.83
	8.8	SANDSTONE - high strength, fresh, slightly fractured and unbroken, light grey medium and coarse grained sandstone. Typically indistinctly bedded																				PL(A) = 1.08

RIG: DT100

DRILLER: SS

LOGGED: ARM/RMM

CASING: HW to 2.5

TYPE OF BORING: Diatube to 0.05m; Non-destructive drilling to 1.6m; Solid flight auger (TC-bit) to 2.5m; Rotary to 3.9m; NMLC-Coring to 18.0m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: Water loss at approximately 14.5m (~50%)

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 48.5 AHD
EASTING: 337072.8
NORTHING: 6245429.4
DIP/AZIMUTH: 90°/-

BORE No: 1
PROJECT No: 72505.11
DATE: 18 - 19/9/2017
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering						Graphic Log	Rock Strength						Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			EW	HW	MW	SW	FS	FR		Ex Low	Very Low	Low	Medium	High	Very High			Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
38	11	SANDSTONE - high strength, fresh, slightly fractured and unbroken, light grey medium and coarse grained sandstone. Typically indistinctly bedded (continued)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

RIG: DT100

DRILLER: SS

LOGGED: ARM/RMM

CASING: HW to 2.5

TYPE OF BORING: Diatube to 0.05m; Non-destructive drilling to 1.6m; Solid flight auger (TC-bit) to 2.5m; Rotary to 3.9m; NMLC-Coring to 18.0m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: Water loss at approximately 14.5m (~50%)

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 55.2 AHD
EASTING: 337086
NORTHING: 6245508.3
DIP/AZIMUTH: 90°/--

BORE No: 2
PROJECT No: 72505.11
DATE: 18 - 20/9/2017
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering						Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS	FR		Ex Low	Very Low	Low	Medium	High			Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %
55.05	0.05	ASPHALTIC CONCRETE																A				
55.3	0.3	ROADBASE - dark grey, sandy fine to medium grained igneous gravel roadbase (possibly recycled road surface)																A*				
55.6	0.6																	A				
54.1		FILLING - grey-brown, fine to medium sand filling with trace fine gravel and glass fragments, damp																				
54.54		SAND - medium dense, yellow-brown, medium grained sand, damp																A			4,7,7 N = 14	
53.2	2	- with some dark brown silty sand bands to 2.0m																S				
53.53																						
52.3	3																				6,11,13 N = 24	
52.52																						
51.4	4																					
51.51																		S				
50.5	5.0	SANDSTONE - very low strength, light yellow-brown, medium grained sandstone																			5.18m: B0°- 5°, ro, un, fe stn 5.27m: B5°, ro, pl, cln	
50.51	5.1	SANDSTONE - medium strength, slightly weathered, slightly fractured then unbroken, light yellow-brown medium grained sandstone. Typically indistinctly bedded with some distinct ironstained beds																C	100	92		
49.6	6																				PL(A) = 0.71	
49.49																					PL(A) = 0.67	
48.7	7																					
48.48																						
47.8	8																				PL(A) = 0.94	
47.47																						
46.9	9	9.47-9.7m: ironstained cross bedding at 70°- 45°																C	100	100	PL(A) = 0.91	
46.46																						

RIG: DT100

DRILLER: SS

LOGGED: ARM/RMM

CASING: HW to 2.5

TYPE OF BORING: Diatube to 0.05m; Non-destructive drilling to 1.9m; Solid flight auger (TC-bit) to 2.0m; Rotary to 5.1m; NMLC-Coring to 19.0m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: *BD1/20170918 taken at 0.3m to 0.4m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 55.2 AHD
EASTING: 337086
NORTHING: 6245508.3
DIP/AZIMUTH: 90°/-

BORE No: 2
PROJECT No: 72505.11
DATE: 18 - 20/9/2017
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium			High	Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type
45		SANDSTONE <i>(continued)</i>																			
10.66		SANDSTONE - medium strength, fresh, slightly fractured, light grey medium and fine grained sandstone. Typically indistinctly bedded														10.63m: Ds, 30mm					PL(A) = 0.71
11																					
11.68		SILTSTONE - low strength, slightly weathered, dark grey siltstone with approximately 30% sandstone beds														11.46m: B5°, ro, pl, cly vn		C	100	97	PL(A) = 0.17
11.88		SANDSTONE - high strength, fresh, unbroken, light grey to grey, medium and coarse grained sandstone. Typically indistinctly bedded and massive														11.69m: Ds, 10mm 11.87m: Ds, 10mm					
12																					PL(A) = 1.24
13																					
13.42																13.48m: Ds, 30mm 13.68m: Ds, 20mm					PL(A) = 0.9
14																		C	100	94	PL(A) = 1.22
15		15.34-15.8m: some distinct siltstone beds														15.09-15.28m: B (x4) 10°, pl, cly, 5mm					PL(A) = 1.29
16																15.72m: B10°, pl, he 15.76m: Ds, 20mm					PL(A) = 1.31
17																					PL(A) = 1.52
18																17.63m: Ds, 10mm		C	100	99	PL(A) = 1.25
19	19.0	Bore discontinued at 19.0m - target depth reached																			

RIG: DT100

DRILLER: SS

LOGGED: ARM/RMM

CASING: HW to 2.5

TYPE OF BORING: Diatube to 0.05m; Non-destructive drilling to 1.9m; Solid flight auger (TC-bit) to 2.0m; Rotary to 5.1m; NMLC-Coring to 19.0m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: *BD1/20170918 taken at 0.3m to 0.4m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 54.6 AHD
EASTING: 337098.7
NORTHING: 6245586
DIP/AZIMUTH: 90°/-

BORE No: 3
PROJECT No: 72505.11
DATE: 21/9/2017
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering				Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS	FR	Ex Low	Very Low	Low	Medium	High	Very High			Type	Core Rec. %	RQD %	Test Results & Comments
	0.03	ASPHALTIC CONCRETE - typically <10mm diameter															A/E			
	0.4	ROADBASE - dark grey, sandy gravel, igneous, angular, up to 30mm diameter, damp															A/E			
	1.0	FILLING - light brown to brown, fine to medium grained sand filling with traces of fine gravel, damp															A/E			
	1.5	- grey-brown with trace of earthenware fragments from 0.7m															A/E			
	1.6	SAND - apparently medium dense, yellow-brown medium grained sand, damp																		
	2.0	SANDSTONE - very low strength, light yellow-brown, medium grained sandstone																		PL(A) = 0.32
	3.0	SANDSTONE - medium strength, slightly weathered, slightly fractured, light grey, medium grained sandstone with some ironstaining. Typically indistinctly bedded															C	100	81	PL(A) = 0.48
	3.67	SANDSTONE - low and very low strength, moderately then slightly weathered, light grey and grey, fine and medium grained sandstone																		PL(A) = 0.12
	4.0	SANDSTONE - low strength, slightly weathered, slightly fractured, light grey, medium grained sandstone. Typically indistinctly bedded																		PL(A) = 0.14
	5.31	SANDSTONE - high strength, slightly weathered then fresh, slightly fractured, light grey medium and coarse grained sandstone. Typically indistinctly bedded															C	100	85	PL(A) = 0.26 PL(A) = 1.42
	6.42m-6.52m	very low strength band - distinctly bedded from 6.54m																		PL(A) = 0.08 PL(A) = 1.85
	7.7	- medium strength from 7.5m															C	100	24	PL(A) = 1.33 PL(A) = 0.62
	8.0	SANDSTONE - medium then medium to high strength, fresh, slightly fractured to unbroken, light grey to grey, medium grained sandstone with some carbonaceous flecks. Typically massive																		PL(A) = 0.52
	9.0																C	100	99	PL(A) = 1.16

RIG: DT100

DRILLER: SS

LOGGED: RMM

CASING: HW to 1.6m

TYPE OF BORING: Solid flight auger (TC-bit) to 0.03m; Non-destructive drilling to 1.5m; Solid flight auger (TC-bit) to 1.6m; NMLC-Coring to 16.0m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 54.6 AHD
EASTING: 337098.7
NORTHING: 6245586
DIP/AZIMUTH: 90°/--

BORE No: 3
PROJECT No: 72505.11
DATE: 21/9/2017
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing				
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium			High	Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %
	44	SANDSTONE - medium then medium to high strength, fresh, slightly fractured to unbroken, light grey to grey, medium grained sandstone with some carbonaceous flecks. Typically massive (continued) 10.36-10.5m: low strength band																				PL(A) = 0.17
	11																					PL(A) = 0.82 PL(A) = 0.89
	43																	C	100	99		
	12																					PL(A) = 1.16
	42																					PL(A) = 1.2
	13																					
	41																					
	14																					
	40																					
	14.82																					
	15	SANDSTONE - medium to high strength, fresh, slightly fractured, light grey medium grained sandstone with some medium strength bands. Typically distinctly bedded																C	100	96		PL(A) = 1.09
	39																					PL(A) = 1.21
	16	Bore discontinued at 16.0m - target depth reached																				PL(A) = 0.76
	16.0																					
	38																					
	17																					
	37																					
	18																					
	36																					
	19																					
	35																					

RIG: DT100

DRILLER: SS

LOGGED: RMM

CASING: HW to 1.6m

TYPE OF BORING: Solid flight auger (TC-bit) to 0.03m; Non-destructive drilling to 1.5m; Solid flight auger (TC-bit) to 1.6m; NMLC-Coring to 16.0m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 51.9 AHD
EASTING: 337044.9
NORTHING: 6245563
DIP/AZIMUTH: 90°/--

BORE No: 4
PROJECT No: 72505.11
DATE: 19 - 21/9/2017
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering EW HW MW SW FS FR	Graphic Log	Rock Strength Ex Low Very Low Low Medium High Very High Ex High	Water	Fracture Spacing (m) 0.01 0.05 0.10 0.50 1.00	Discontinuities B - Bedding J - Joint S - Shear F - Fault		Sampling & In Situ Testing			
										Type	Core Rec. %	RQD %	Test Results & Comments
51.04	0.04	ASPHALTIC CONCRETE (typically <10mm diameter)								A			8,14,17 N = 31
51.07	0.07	ASPHALTIC CONCRETE (typically <20mm diameter)								A			
51.2	0.2	ROADBASE - dark grey, angular, igneous gravel typically 40-80mm diameter, slight hydrocarbon odour								A			
51.8	0.8	FILLING - orange-brown, medium grained sand filling with some sandstone gravel and a trace of clay (ripped sandstone)								A			
51.9	1	SAND - pale yellow-brown, fine to medium grained sand, damp								A			
52.2	2.2	2.2m: brown											8,14,17 N = 31
52.6	2.6	SAND - medium dense to dense, orange, fine to medium sand with some clay, damp								S			
53.5	3.5	SANDSTONE - extremely low to very low strength sandstone											PL(A) = 0.22
53.65	3.65	SANDSTONE - low strength, slightly weathered, fractured to slightly fractured, pale brown, medium to coarse grained sandstone								C	100	98	
54.15	4.15	SANDSTONE - medium strength, slightly weathered then fresh, slightly fractured and fractured, medium to coarse grained sandstone - limonite staining to 4.40m											PL(A) = 0.76
55.5	5.5	5.5m: distinct irregular bedding dipping 15° - 20°											PL(A) = 0.71
56.4	6.4	6.4m: indistinct irregular bedding dipping 0° - 20°											PL(A) = 0.71
56.91	6.91	SANDSTONE - medium strength, fresh, slightly fractured and unbroken, pale grey, medium to coarse grained sandstone, massive, trace carbonaceous flecks								C	100	99	PL(A) = 0.66
57.63	7.63	7.63m: Ds, 15mm sandy clay											PL(A) = 0.95
58.2	8.2												PL(A) = 0.73

RIG: Bobcat **DRILLER:** GM **LOGGED:** ARM **CASING:** HW to 3.65m
TYPE OF BORING: Diatube to 0.08m; NDD to 1.7m; Solid flight auger (TC-bit) to 3.65m; NMLC-Coring to 17.31m
WATER OBSERVATIONS: No free groundwater observed whilst augering
REMARKS: NDD = Non-destructive drilling

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	≡ Water level	V Shear vane (kPa)	

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 51.9 AHD
EASTING: 337044.9
NORTHING: 6245563
DIP/AZIMUTH: 90°/-

BORE No: 4
PROJECT No: 72505.11
DATE: 19 - 21/9/2017
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering						Graphic Log	Rock Strength						Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS	FR		Ex Low	Very Low	Low	Medium	High	Very High			Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %
41	11	SANDSTONE - medium strength, fresh, slightly fractured and unbroken, pale grey, medium to coarse grained sandstone, massive, trace carbonaceous flecks (continued)																C	100	95	PL(A) = 0.61		
40	12	SANDSTONE - medium to high strength, fresh, slightly fractured to unbroken, pale grey, medium to coarse grained sandstone, indistinct bedding typically dipping 10°- 20°																			PL(A) = 0.69		
39	13																	C	100	98	PL(A) = 1.1		
38	14	SANDSTONE - high then medium strength, fresh, unbroken, pale grey, fine to medium grained sandstone, occasional carbonaceous laminations and flecks																			PL(A) = 0.91		
37	15																					PL(A) = 1.33	
36	16	16.78-16.97m: siltstone clasts and laminations, slightly fractured																C	100	94	PL(A) = 0.59		
35	17																					PL(A) = 0.76	
34	17.31	Bore discontinued at 17.31m - target depth reached																					
33	18																						
32	19																						

RIG: Bobcat **DRILLER:** GM **LOGGED:** ARM **CASING:** HW to 3.65m
TYPE OF BORING: Diatube to 0.08m; NDD to 1.7m; Solid flight auger (TC-bit) to 3.65m; NMLC-Coring to 17.31m
WATER OBSERVATIONS: No free groundwater observed whilst augering
REMARKS: NDD = Non-destructive drilling

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 49.4 AHD
EASTING: 337032.3
NORTHING: 6245476.3
DIP/AZIMUTH: 90°/-

BORE No: 5
PROJECT No: 72505.11
DATE: 19 - 25/9/2017
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)				Discontinuities		Sampling & In Situ Testing						
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium		High	Very High	Ex High	0.01	0.05	0.10	0.50	1.00	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %
49	0.05	ASPHALTIC CONCRETE (typically <10mm diameter)																									
	0.15	ROADBASE - dark grey, angular, igneous gravel typically 40-80mm diameter, slight hydrocarbon odour																					A				
	0.35																										
	1.1																					A					
	48	1.1	FILLING - pale grey and brown sandstone gravel and cobbles up to 100mm diameter (ripped sandstone)																				A*				
	2	2	SAND - grey-brown, fine to medium grained sand with a trace of fine gravel, humid (possibly filling) 0.9m: becoming dark brown																					A			
		47	2	SAND - dark brown, fine to coarse grained sand with some silt and a trace of fine gravel, damp (possibly filling)																							
		2.6	2.6	SAND - medium dense, yellow-brown, fine to medium grained sand, damp																				S			6.9,9 N = 18
	46	3																					B				
	45	4																					S			4,13,30/140mm refusal	
45	4.6																										
5	4.65	SANDSTONE - very low strength, orange-brown sandstone																									
	5	SANDSTONE - low strength, slightly and moderately weathered, unbroken, orange-brown sandstone with some fine quartz gravel 4.77-5.15m: distinct ironstaining																								PL(A) = 0.24	
	5.9	SANDSTONE - medium strength, fresh, slightly fractured, pale grey, medium to coarse grained sandstone with trace of carbonaceous flecks																					C	100	98	PL(A) = 0.48	
	7	6.45-6.56m: J 6.56m: B0°, pl, ro, cly vn																								PL(A) = 0.8	
		7.72	7.72m: B0°, pl, sm, cly vn																								
	8	8.05m: B5°, pl, sm, stn, sandy cly																								PL(A) = 0.15	
	8	SILTSTONE - low strength, fresh, slightly fractured to unbroken, dark grey siltstone with 20% fine sand																									
	9	LAMINITE - low strength, fresh, slightly fractured to unbroken, dark grey siltstone interlaminated and interbedded with 30% pale grey, fine grained sandstone, horizontally bedded																						C	100	100	PL(A) = 0.19
	9	8.27-8.38m: disturbed bedding, possible healed shear zone																									
	40	9.09	SANDSTONE - high strength, fresh, unbroken then slightly fractured, medium to coarse grained sandstone																								PL(A) = 1.2

RIG: Bobcat **DRILLER:** GM **LOGGED:** ARM **CASING:** HW to 4.65m

TYPE OF BORING: Diatube to 0.05m; Non-destructive drilling to 1.6m; Solid flight auger to 4.65m; NMLC-Coring to 16.77m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: *BD1/20170919 replicate taken at 1.3m to 1.4m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 49.4 AHD
EASTING: 337032.3
NORTHING: 6245476.3
DIP/AZIMUTH: 90°/--

BORE No: 5
PROJECT No: 72505.11
DATE: 19 - 25/9/2017
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering						Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS	FR		Ex Low	Very Low	Low	Medium	High			Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %
39		SANDSTONE - see next page SANDSTONE - high strength, fresh, unbroken then slightly fractured, medium to coarse grained sandstone <i>(continued)</i>																C	100	100		
11		10.94-11.22m: fine to medium grained 11.22m: distinct cross bedding typically dipping 20°															10.93m: B5°, pl, ro, cly co, 5mm				PL(A) = 0.79	
38																						
12		12.07m: massive																C	100	100	PL(A) = 1.59	
37																						
13																					PL(A) = 1.18	
36																						
14		14.2-14.4m: fine to medium grained 14.4m: massive															13.5m: B10°, pl, ro, cly vn 14.39m: B5°, pl, ro, cly co, 5mm				PL(A) = 1.45 PL(A) = 1.62	
35																						
15		15.21m: indistinct irregular bedding dipping 0°- 20°															15.21m: B10°, pl, ro, cly vn 15.59m: Ds, sandy cly, 10mm	C	100	100	PL(A) = 1.76 PL(A) = 1.26	
34																						
16																					PL(A) = 1.63	
33																						
16.77		Bore discontinued at 16.77m - target depth reached																				
17																						
32																						
18																						
31																						
19																						
30																						

RIG: Bobcat **DRILLER:** GM **LOGGED:** ARM **CASING:** HW to 4.65m
TYPE OF BORING: Diatube to 0.05m; Non-destructive drilling to 1.6m; Solid flight auger to 4.65m; NMLC-Coring to 16.77m
WATER OBSERVATIONS: No free groundwater observed whilst augering
REMARKS: *BD1/20170919 replicate taken at 1.3m to 1.4m

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	≡ Water level	V Shear vane (kPa)	

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 47.6 AHD
EASTING: 336968.9
NORTHING: 6245421.4
DIP/AZIMUTH: 90°/-

BORE No: 6
PROJECT No: 72505.11
DATE: 19 - 22/9/2017
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium			High	Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type
47 1 46 2	0.06	ASPHALTIC CONCRETE (typically <10mm diameter)																A			
	0.25	ROADBASE - dark grey/black, sandy gravel, angular, igneous (typically <40mm diameter)																A			
	0.6	FILLING - grey-brown, gravelly sand filling with a trace of clay, fine to medium igneous and sandstone gravel, damp																A			
	1	FILLING - brown, medium sand filling with some fine sandstone gravel, cobbles and clay, damp (crushed sandstone)																A			
	2																	A			
	45 3	2.3	SAND - loose, brown, fine to medium grained sand, damp															S			0.2,2 N = 4
	44 4	4.0	SAND - medium dense, fine to medium grained sand, damp															S			8,11,9 N = 20
	43 5	4.6	SAND - medium dense, orange-brown, fine to medium grained sand with some clay, moist															A			
	42 6	5.2	CLAYEY SAND - dense, grey-brown, clayey fine to medium grained sand, wet (possibly extremely low strength sandstone) 5.5m: grey															A			5,17,20 N = 37
	41 7	6.9	SANDSTONE - low strength, slightly weathered, fractured to slightly fractured, pale grey and orange, medium to coarse grained sandstone																		PL(A) = 0.15
40 8																				PL(A) = 0.12	
39 9	8.77	8.61-8.66m: disturbed siltstone laminations																C	100	81	PL(A) = 0.77
38		SANDSTONE - medium strength, fresh, slightly fractured, pale grey, medium to coarse grained sandstone, indistinct bedding typically dipping 10° - 20°																C	100	99	PL(A) = 0.94

RIG: Bobcat **DRILLER:** GM **LOGGED:** ARM **CASING:** HW to 6.0m
TYPE OF BORING: Diatube to 0.06m; Non-destructive drilling to 1.5m; Solid flight auger (TC-bit) to 5.5m; Washbore to 6.88m; NMLC-Coring to 16.5m
WATER OBSERVATIONS: Free groundwater observed at 5.0m whilst augering
REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	≡ Water level	V Shear vane (kPa)	

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 47.6 AHD
EASTING: 336968.9
NORTHING: 6245421.4
DIP/AZIMUTH: 90°/--

BORE No: 6
PROJECT No: 72505.11
DATE: 19 - 22/9/2017
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities	Sampling & In Situ Testing					
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium			High	Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %
	37	SANDSTONE - medium strength, fresh, slightly fractured, pale grey, medium to coarse grained sandstone, indistinct bedding typically dipping 10°- 20° <i>(continued)</i>																				
	11																					
	36	SANDSTONE - high strength, fresh, unbroken, pale grey, medium to coarse grained sandstone, irregular bedding dipping 0°- 20°																				
	12																					
	35																					
	13																					
	34																					
	14																					
	33	14.56m: slightly fractured																				
	15																					
	32	15.55m: with some fine quartz gravel bands																				
	16																					
	16.5	16.45-16.5m: siltstone band																				
	31	Bore discontinued at 16.5m - target depth reached																				
	17																					
	30																					
	18																					
	29																					
	19																					
	28																					

RIG: Bobcat **DRILLER:** GM **LOGGED:** ARM **CASING:** HW to 6.0m
TYPE OF BORING: Diatube to 0.06m; Non-destructive drilling to 1.5m; Solid flight auger (TC-bit) to 5.5m; Washbore to 6.88m; NMLC-Coring to 16.5m
WATER OBSERVATIONS: Free groundwater observed at 5.0m whilst augering
REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	≡	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 54.6 AHD
EASTING: 336990.5
NORTHING: 6245617.7
DIP/AZIMUTH: 90°/--

BORE No: 7
PROJECT No: 72505.11
DATE: 6/10/2017
SHEET 1 OF 3

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)				Discontinuities		Sampling & In Situ Testing					
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium		High	Very High	Ex High	0.01	0.05	0.10	0.50	1.00	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %
	0.2	FILLING - brown, fine to medium grained sand filling with traces of rootlets, humid																								
54																										
1		SAND - loose to medium dense becoming medium dense, yellow-brown mottled orange-brown fine to medium grained sand, damp																								
53																										
2																										
52																										
3																										
51		3.5m: becoming orange-brown with traces of clay																								
3.9																										
4.1		SANDSTONE - low to medium strength, orange-brown and grey medium to coarse grained sandstone																								
50																										
5		SANDSTONE - low to medium strength, slightly weathered, slightly fractured, orange-brown and light grey, medium to coarse grained sandstone. Bedding typically indistinct and ironstained																								
5.14																										
49		SANDSTONE - medium strength, slightly weathered, slightly fractured to unbroken, orange-brown and light grey, medium to coarse grained sandstone																								
6		5.14-5.7m: cross bedding at approximately 40°, bedding typically indistinct																								
48																										
7																										
47		7.77-7.94m: extremely low to very low strength ironstained seam																								
8																										
7.94		SANDSTONE - low to medium strength, slightly weathered, slightly fractured, light grey, medium grained sandstone, typically indistinct bedding dipping 10-20°																								
46																										
9																										
9.48		SANDSTONE - see next page																								
45																										

RIG: DT100

DRILLER: RKE

LOGGED: RMM

CASING: HW to 4.0m; HQ to 4.1m

TYPE OF BORING: Solid flight auger (TC-bit) to 4.0m; Rotary to 4.1m; NMLC-Coring to 20.47m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: Groundwater monitoring well installed (screen 4.0-20.47m; gravel 5.0-20.47m; bentonite 3.5-5.0m; backfill surface to 3.5m with concrete set gatic cover). Groundwater well purged >3 well volumes following installation

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	sp	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 54.6 AHD
EASTING: 336990.5
NORTHING: 6245617.7
DIP/AZIMUTH: 90°/--

BORE No: 7
PROJECT No: 72505.11
DATE: 6/10/2017
SHEET 2 OF 3

[illegible]
Douglas Partners
 Geotechnics | Environment | Groundwater

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 54.6 AHD
EASTING: 336990.5
NORTHING: 6245617.7
DIP/AZIMUTH: 90°/--

BORE No: 7
PROJECT No: 72505.11
DATE: 6/10/2017
SHEET 3 OF 3

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing				
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium			High	Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %
	20.47	SANDSTONE <i>(continued)</i>																				
		Bore discontinued at 20.47m - target depth reached																				
	34																					
	21																					
	33																					
	22																					
	32																					
	23																					
	31																					
	24																					
	30																					
	25																					
	29																					
	26																					
	28																					
	27																					
	27																					
	28																					
	26																					
	29																					
	25																					

RIG: DT100

DRILLER: RKE

LOGGED: RMM

CASING: HW to 4.0m; HQ to 4.1m

TYPE OF BORING: Solid flight auger (TC-bit) to 4.0m; Rotary to 4.1m; NMLC-Coring to 20.47m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: Groundwater monitoring well installed (screen 4.0-20.47m; gravel 5.0-20.47m; bentonite 3.5-5.0m; backfill surface to 3.5m with concrete set gatic cover). Groundwater well purged >3 well volumes following installation

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 50.5 AHD
EASTING: 337038.1
NORTHING: 6245507
DIP/AZIMUTH: 90°/--

BORE No: 8
PROJECT No: 72505.11
DATE: 23 - 24/1/2018
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)				Discontinuities		Sampling & In Situ Testing							
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium		High	Very High	Ex High	0.01	0.05	0.10	0.50	1.00	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
	0.1	ASPHALTIC CONCRETE (typically <10mm diameter)																										
	0.25	ROADBASE - dark grey, angular, igneous gravel typically 40-80mm diameter																					A					
	0.6	FILLING - pale grey and brown sandstone gravel and cobbles up to 100mm diameter (ripped sandstone)																					A*					
	1	SAND - pale brown, medium grained sand with a trace of fine gravel, damp																										
	2																						A					
	2.6	SANDSTONE - extremely low strength, orange-brown sandstone																					S				7,10/10mm refusal	
	2.77	SANDSTONE - low then medium strength, slightly weathered, fractured to slightly fractured, orange and grey, medium to coarse grained sandstone																										
	3																						C	100	100		PL(A) = 0.26	
	4																										PL(A) = 0.43	
	5																										PL(A) = 0.6	
	5.45	SANDSTONE - high then medium strength, fresh, slightly fractured to unbroken, pale grey, medium to coarse grained sandstone with a trace of carbonaceous flecks																					C	100	95		PL(A) = 1.12	
	6																											
	6.4-6.9m	red-brown iron staining																									PL(A) = 0.69	
	7																											
	8	8.1-8.55m: low strength band																					C	100	100		PL(A) = 0.63	
	9																										PL(A) = 0.22	
																											PL(A) = 0.63	
																											PL(A) = 1.03	

RIG: Bobcat

DRILLER: GM

LOGGED: ARM

CASING: HW to 2.5m; HQ to 2.7m

TYPE OF BORING: Diatube to 0.10m; Non-destructive drilling to 1.7m; Solid flight auger (TC-bit) to 2.77m; NMLC-Coring to 17.39m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: *BD1/20180123 replicate taken at 0.4m to 0.5m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 50.5 AHD
EASTING: 337038.1
NORTHING: 6245507
DIP/AZIMUTH: 90°/--

BORE No: 8
PROJECT No: 72505.11
DATE: 23 - 24/1/2018
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium			High	Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type
	10.41	10.2-10.41m: with 25% siltstone clasts up to 20mm diameter, fragmented (possibly drilling induced)																C	100	88	PL(A) = 0.18
	11	LAMINITE - low strength, fresh, slightly fractured, dark grey siltstone interlaminated and interbedded with 40% pale grey, fine grained sandstone																			
	11.45	SANDSTONE - high strength, fresh, slightly fractured to unbroken, pale grey, medium to coarse grained sandstone, massive																C	100	88	
	12																				PL(A) = 2.23
	13	12.84-13.03m: with 50% carbonaceous laminations 13.03-13.21: fine to medium grained 13.21m: medium to coarse grained, irregular bedding dipping 10-20°																			PL(A) = 1.54
	14																				PL(A) = 1.19
	15	14.8m: massive																C	100	99	PL(A) = 1.27
	16																				PL(A) = 1.36
	17	16.44m: irregular bedding dipping 10-20°																C	100	99	PL(A) = 1.57
	17.39	Bore discontinued at 17.39m - target depth reached																			
	18																				
	19																				
	31																				

RIG: Bobcat

DRILLER: GM

LOGGED: ARM

CASING: HW to 2.5m; HQ to 2.7m

TYPE OF BORING: Diatube to 0.10m; Non-destructive drilling to 1.7m; Solid flight auger (TC-bit) to 2.77m; NMLC-Coring to 17.39m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: *BD1/20180123 replicate taken at 0.4m to 0.5m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 49.2 AHD
EASTING: 337026.2
NORTHING: 6245465.1
DIP/AZIMUTH: 90°/-

BORE No: 9
PROJECT No: 72505.11
DATE: 23 - 25/1/2018
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)				Discontinuities		Sampling & In Situ Testing							
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium		High	Very High	Ex High	0.01	0.05	0.10	0.50	1.00	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
49	0.05	ASPHALTIC CONCRETE (typically <10mm diameter)																										
	0.15																					A						
	0.4	ROADBASE - dark grey, angular, igneous gravel typically 40-80mm diameter																				A						
1		FILLING - pale grey and brown sandstone gravel and cobbles up to 150mm diameter (ripped sandstone)																										
48	1.3	SAND - dark grey, slightly silty fine to medium grained sand with a trace of rootlets, humid																				A						
		SAND - pale grey, medium grained sand, damp																				A						
2		2.2-2.4m: dark brown, silty band																										
47	2.4	SAND - medium dense, yellow-brown, fine to medium grained sand, damp																				S					3.5,5 N = 10	
46																												
4																												
45																												
4																												
5		5.0m: becoming clayey																										

RIG: Bobcat

DRILLER: GM

LOGGED: ARM

CASING: HW to 4.0m; HQ to 6.0m

TYPE OF BORING: Diatube to 0.10m; NDD to 1.6m; Solid flight auger (TC-bit) to 4.0 m; Rotary to 6.03 m; NMLC-Coring to 17.49m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: NDD = Non-Destructive Drilling

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road and High, Magill and Botany Streets, Randwick

SURFACE LEVEL: 49.2 AHD
EASTING: 337026.2
NORTHING: 6245465.1
DIP/AZIMUTH: 90°/-

BORE No: 9
PROJECT No: 72505.11
DATE: 23 - 25/1/2018
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium			High	Very High	Ex High	B - Bedding S - Shear	J - Joint F - Fault	Type
38		SANDSTONE - high strength, fresh, slightly fractured to unbroken, pale grey, medium to coarse grained sandstone, irregular bedding dipping 10-20° (continued)															10.12m: B20°, co, cly, 1mm 10.3m: Ds, 20mm, cly	C	100	98	PL(A) = 1.12
11																	10.74m: B20°, vn, cly 10.77m: B5-10°, cu, co, cly, 3mm 10.94m: B10°, co, cly, 2mm				
38																					PL(A) = 0.9
12																	11.97m: B20°, vn, sandy cly				
37																		C	100	100	PL(A) = 1.72
13		12.48-12.58m: grey, fine to medium grained 12.58-13.48m: massive															12.58m: B10°, vn, cly				
36																					PL(A) = 1.38
14																	13.48m: B15-20°, co, sandy cly, 1mm 14.04m: B20°, stn, cly				
35																		C	100	98	PL(A) = 1.4
15																	15.29m: B15°, vn, cly 16m: B0-5°, cu, co, cly, 2mm				
34																					PL(A) = 1.01
16		16.23-17.27m: with some quartz gravel bands and carbonaceous laminations																			
33																					PL(A) = 1.13
17		17.27m: massive																			
32																					
17.49		Bore discontinued at 17.49m - target depth reached															17.44m: B0°, co, cly, 2mm				
18																					
31																					
19																					
30																					

RIG: Bobcat

DRILLER: GM

LOGGED: ARM

CASING: HW to 4.0m; HQ to 6.0m

TYPE OF BORING: Diatube to 0.10m; NDD to 1.6m; Solid flight auger (TC-bit) to 4.0 m; Rotary to 6.03 m; NMLC-Coring to 17.49m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: NDD = Non-Destructive Drilling

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: ~48.0
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH101
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - dark brown, fine to medium slightly silty sand filling (topsoil) with traces of root fibres, damp		D	0.0					
	0.3	FILLING - light brown fine to medium sand filling, moist			0.3					
				D	0.5					
					0.7					
	1			D	1.0					
					1.3					
	1.4	SAND - orange-brown fine to medium yellow sand, moist		D	1.4					
	1.6	Bore discontinued at 1.6m - target depth reached			1.6					

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 1.6m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 48.0 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH102
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
48		FILLING - dark brown fine to medium silty sand filling with root fibres		D	0.0					
	0.3	SAND - brown silty fine to medium sand		D	0.3					
					0.5					
47					0.6					
	1	- becoming brown-yellow at 1.0m		D	1.0					
	1.2	Bore discontinued at 1.2m - target depth reached			1.2					

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 1.2m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 49.2 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH103
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
49		FILLING - light brown fine to medium silty sand filling with traces of root fibres, brick and gravel		D	0.0					
					0.3					
	0.4	SAND - yellow fine to medium sand		D	0.5					
					0.7					
	0.7	Bore discontinued at 0.7m - target depth reached								
	1									
48										

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.7m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets,
Randwick

SURFACE LEVEL: 49.4 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH104
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing			Water	Well Construction Details	
				Type	Depth	Sample			
49		FILLING - brown fine to medium silty sand filling with traces of roots		D	0.0				
		0.3							
	0.4	SAND - yellow, light brown fine to medium sand		D	0.5				
0.7	Bore discontinued at 0.7m - target depth reached				0.7				
	1								
48									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.7m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U _t	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W _{seep}	Water seep
E	Environmental sample	W _{level}	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 55.4 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH105
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - brown fine to medium sand filling with trace of rootlets		D	0.0					
		- becoming light brown at 0.3m with traces of gravel, metal		D*	0.3					
	0.5	SAND - light brown-yellow fine to medium sand		D	0.5					
	0.7	Bore discontinued at 0.7m - target depth reached			0.7					
	1									
	55.4									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.7m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD1/20180109 taken at 0.3m to 0.5m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 55.4 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH106
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - brown fine to medium slightly silty sand filling with roots, traces of gravel and potential ACM		D	0.0		potential ACM fragment found			
					0.2					
	0.4	SAND - yellow-brown fine to medium sand with traces of sandstone gravel		D	0.5					
	0.7	Bore discontinued at 0.7m - target depth reached			0.7					
	1									
	5.4									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.7m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 55.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH107
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - brown fine to medium slightly silty sand filling with root fibres, and a trace of gravel		D*	0.0					
	0.2	SAND - light brown-yellow fine to medium sand			0.2					
					0.5					
				D	0.6					
	0.7	Bore discontinued at 0.7m - target depth reached								
	1									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.7m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD2/20180109 taken at 0.0m to 0.2m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets,
Randwick

SURFACE LEVEL: 55.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH108
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

[illegible]

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.8m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 55.4 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH109
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - dark brown fine to medium slightly silty sand filling with trace of root fibres, gravel		D	0.0					
					0.2					
	0.35	Bore discontinued at 0.35m - refusal on object in filling?								
	1									
	5.4									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.35m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 55.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH110
PROJECT No: 72505.12
DATE: 9/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - dark brown silty fine to medium sand filling with trace of root fibres		D	0.0					
					0.2					
	0.4	SAND - yellow-brown fine to medium sand		D*	0.5					
					0.7					
	0.8	Bore discontinued at 0.8m - target depth reached								
	1									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.8m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD3/20180109 taken at 0.5m to 0.7m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 51.0 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH111
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
51		FILLING - brown slightly silty fine to medium sand filling with traces of gravel and root fibres		D	0.0					
					0.2					
	0.3	SAND - light yellow fine to medium sand								
				D	0.5					
					0.7					
	0.8	Bore discontinued at 0.8m - target depth reached								
-51	-1									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.8m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 51.0 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH112
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
51		FILLING - dark brown fine to medium silty sand filling with traces of root fibres		D	0.0					
					0.2					
	0.6	SAND - yellow fine to medium sand		D	0.6					
					0.7					
50	0.9	Bore discontinued at 0.9m - target depth reached								
49										

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.9m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 51.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH113
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
	0.05	FILLING - dark brown slightly silty, fine to medium sand filling (topsoil) with traces of roots and mulch		D	0.0					
					0.05					
		FILLING - brown slightly silty, clayey fine to medium sand filling with traces of root fibres			0.1					
				D*						
					0.3					
	0.5	SAND - light yellow-brown fine to medium sand			0.5					
				D						
	0.7	Bore discontinued at 0.7m - target depth reached			0.7					
	1									
	50									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.7m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: BD1/20180110 taken at 0.1m to 0.3m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 51.0 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH114
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
51		FILLING - dark brown slightly silty silty fine to medium sand filling with traces of root fibres		D	0.0					
					0.2					
					0.5					
					0.7					
	0.8	SAND - yellow fine to medium sand, damp		D	0.8					
50	1.0	Bore discontinued at 1.0m - target depth reached			1.0					

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 1.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH115
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - dark brown slightly silty fine to medium sand filling with traces of root fibres		D	0.0					
					0.2					
	0.5	SAND - yellow fine to medium sand		D	0.5					
	0.7	Bore discontinued at 0.7m - target depth reached			0.7					
	1									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.7m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)



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BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: --
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH116
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - dark brown slightly silty fine to medium sand filling with traces of gravel and root fibre		D	0.0					
					0.2					
	0.5	SAND - yellow fine to medium sand		D	0.6					
					0.8					
	0.8	Bore discontinued at 0.8m - target depth reached								
	1									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.8m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 48.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH117
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
48		FILLING - dark brown silty fine to medium sand filling with traces of charcoal and root fibres		D	0.0					
	0.2	FILLING - dark brown-yellow silty fine to medium sand filling			0.2					
				D	0.6					
					0.8					
					1.0					
					1.1					
	1.4	SAND - orange-red clayey fine to medium sand		D	1.5					
					1.6					
	1.6	Bore discontinued at 1.6m - target depth reached								

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 1.6m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 48.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH118
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
48		FILLING - dark brown silty fine to medium sand filling with traces of root fibres		D	0.0					
					0.2					
					0.5					
				D	0.6					
		- becoming clayey sand at 1.0m		D	1.0					
	1.1	CLAYEY SAND - mottled brown-orange-red clayey fine to medium sand, moist			1.1					
					1.4					
				D	1.5					
	1.5	Bore discontinued at 1.5m - target depth reached								

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 1.5m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 51.8 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH119
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
		FILLING - dark brown silty fine to medium sand filling with rootlets, root fibres and traces of mulch, gravel		D*	0.0					
					0.3					
		- becoming light brown at 0.5m			0.5					
	0.6	SAND - light brown slightly silty fine to medium sand with traces of sandstone gravel		D	0.6					
					0.7					
					0.8					
	0.9	SAND - yellow-brown fine to medium sand with traces of gravel								
					1.0					
	1.1	Bore discontinued at 1.1m - target depth reached		D	1.1					

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 1.1m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD2/20180110 taken at 0.0m to 0.3m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 52.0 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH120
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
52.0		FILLING - brown silty fine to medium sand filling with root fibres and a trace of gravel		D	0.0					
					0.1					
0.4		Bore discontinued at 0.4m - refusal - No access								
51.0										

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.4m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 50.0 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH121
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
50	0.05	FILLING - dark brown silty sand filling (topsoil) with traces of roots		D	0.0					
					0.05					
		FILLING - yellow-brown silty sand filling with traces of root fibres, gravel and glass			0.1					
				D*						
	0.3	SAND - yellow-brown sand with traces of sandstone gravel			0.3					
					0.4					
				D						
					0.5					
	0.6	Bore discontinued at 0.6m - target depth reached								
-1										

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.6m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD3/20180110 taken at 0.1m to 0.3m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Health Infrastructure
PROJECT: Randwick Campus Redevelopment
LOCATION: Hospital Road & High, Magill & Botany Streets, Randwick

SURFACE LEVEL: 51.0 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: BH122
PROJECT No: 72505.12
DATE: 10/1/2018
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Well Construction Details	
				Type	Depth	Sample	Results & Comments			
51		FILLING - brown silty sand filling with traces of roots, gravel and root fibres		D*	0.0					
					0.1					
	0.4	SAND - dark yellow sand		D	0.5					
					0.6					
	0.7	Bore discontinued at 0.7m - target depth reached								
-51	-1									

RIG: Hand tools

DRILLER: LT

LOGGED: LT

CASING: Uncased

TYPE OF BORING: Hand auger to 0.7m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD4/20180110 taken at 0.0m to 0.1m

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	>	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

Groundwater Field Sheet

Project and Bore Installation Details		Bore Volume = casing volume + filter pack volume $= \pi h_c d_c^2 / 4 + n(\pi h_f d_c^2 / 4 - \pi h_f d_f^2 / 4)$ Where: $\pi = 3.14$ n = porosity (0.3 for most filter pack material) h_c = height of water column d_c = diameter of casing h_f = length of filter pack d_f = diameter of casing Bore Vol Normally: 7.2 m³				
Bore / Standpipe ID:	BH7 / GW7					
Project Name:	Randwick Campus Redevelopment					
Project Number:	72505.12					
Site Location:						
Bore GPS Co-ord:						
Installation Date:						
GW Level (during drilling):	- m bgl					
Well Depth:	m bgl					
Screened Interval:	m bgl					
Contaminants/Comments:	-					
Bore Development Details						
Date/Time:						
Purged By:						
GW Level (pre-purge):	m bgl					
GW Level (post-purge):	m bgl					
PSH observed:	Yes / No (interface / visual). Thickness if observed:					
Observed Well Depth:	m bgl					
Estimated Bore Volume:	L					
Total Volume Purged:	(target: no drill mud, min 3 well vol. or dry)					
Equipment:						
Micropurge and Sampling Details						
Date/Time:	13/10/17 12:30pm					
Sampled By:	ARM					
Weather Conditions:	fine					
GW Level (pre-purge):	5.07 m bgl					
GW Level (post sample):	5.18 m bgl					
PSH observed:	Yes / ☒ No (interface / visual). Thickness if observed:					
Observed Well Depth:	20.3 m bgl					
Estimated Bore Volume:	L					
Total Volume Purged:	15L					
Equipment:						
Water Quality Parameters						
Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Turbidity	Redox (mV)
Stabilisation Criteria (3 readings)	0.1°C	+/- 0.3 mg/L	+/- 3%	+/- 0.1	+/- 10%	+/- 10 mV
0.5L	24.6	2.30	346	5.07	971	100
1.5L	23.1	1.92	328	5.09	224	96
2.5L	22.7	0.73	321	5.07	184	94
3.5L	22.3	0.64	320	5.07	140	101
4.0L	22.2	0.61	318	5.08	120	101
5.0L	21.9	0.63	317	5.08	100	107
6.0L	21.7	0.55	318	5.08	120	111
6.5	21.7	0.55	318	5.08	105	112
7.0	21.7	0.52	318	5.08	120	108
Additional Readings Following stabilisation:	DO % Sat	SPC	TDS			
Sample Details						
Sampling Depth (rationale):	11.0 m bgl, approx mid column					
Sample Appearance (e.g. colour, siltiness, odour):	slightly cloudy, no colour					
Sample ID:	AW7					
QA/QC Samples:	BD13010207					
Sampling Containers and filtration:						
Comments / Observations:						

Appendix E

Tables E1 (Soil), E2 (Groundwater) and E3 (Waste Classification)

Laboratory Certificates

Chain of Custody Documentation

[illegible]

[illegible]

Table E2: Groundwater Results

	PAHs in Water - Low Level			Metals										TPH										BTEX					MAH								
	Benzo(a)pyrene TEQ	Benzo(b,j,k)fluoranthene	Total +ve PAHs	Arsenic (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Magnesium (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	C10-C16	C16-C34	C34-C40	F2-NAPHTHALENE	C6 - C9	C10 - C14	C15 - C28	C29-C36	C6-C10 less BTEX (F1)	C6-C10	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene		
	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
EQL	0.5	0.2		0.001	0.0001	0.5	0.001	0.001	0.001	0.5	0.00005	0.001	0.001	0.05	0.1	0.1	0.05	0.01	0.05	0.1	0.1	0.01	0.01	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																																					
2-4m																	1					1		0.8	NL	NL											
NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, Sand																																					
2-4m																	NL					NL		NL	NL	NL											
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand																																					
2-4m																	NL					6		5	NL	NL											
NEPM 2013 Table 1C GILs, Fresh Waters					0.0002			0.0014	0.0034		0.00006	0.011	0.008											0.95				0.35									
NEPM 2013 Table 1C GILs, Drinking Water					0.01	0.002		2	0.01		0.001	0.02												0.001	0.3	0.8											

Field_ID	LocCode	WellCode	Sampled_Date-Time																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Statistical Summary																																			
Number of Results	2	2	2	2	2	1	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	
Minimum Concentration	<0.5	<0.2	0	<0.001	<0.0001	1.6	<0.001	0.007	<0.001	2.7	<0.00005	0.002	0.022	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.1	<0.1	0.012	0.014	<0.001	<0.001	0.001	<0.002	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Minimum Detect	ND	ND	ND	ND	ND	1.6	ND	0.007	ND	2.7	ND	0.002	0.022	ND	ND	ND	ND	ND	ND	ND	ND	0.012	0.014	ND	ND	0.001	ND	ND	0.001	0.001	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.2	0	<0.001	<0.0001	1.6	<0.001	0.007	<0.001	2.7	<0.00005	0.002	0.024	<0.05	<0.1	<0.1	<0.05	<0.01	<0.05	<0.1	<0.1	0.013	0.014	<0.001	<0.001	0.001	<0.002	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Maximum Detect	ND	ND	ND	ND	ND	1.6	ND	0.007	ND	2.7	ND	0.002	0.024	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.014	ND	ND	0.001	ND	ND	0.001	0.001	ND	ND	ND	ND	ND
Average Concentration																																			
Median Concentration	0.25	0.1	0	0.0005	0.00005	1.6	0.0005	0.007	0.0005	2.7	0.000025	0.002	0.023	0.025	0.05	0.05	0.025	0.005	0.025	0.05	0.05	0.0125	0.014	0.0005	0.0005	0.001	0.001	0.0005	0.001	0.001	0.0005	0.0005	0.0005	0.0005	0.0005
Standard Deviation																																			
Number of Guideline Exceedances	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table E2: Groundwater Results

	Chlorinated Hydrocarbons																															
	Styrene	tert-butylbenzene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.01	0.001	0.01	0.001	0.01	0.001	0.001	0.001	0.001	0.001	0.001	0.01
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, 2-4m																																
NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, San 2-4m																																
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion 2-4m																																
NEPM 2013 Table 1C GILs, Fresh Waters						6.5																0.37										
NEPM 2013 Table 1C GILs, Drinking Water	0.03							0.03				0.003							0.003									0.0007		0.05		0.0003

Field_ID	LocCode	WellCode	Sampled_Date-Time																													
BD13102017	BD13102017		13/10/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW7	GW7		13/10/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	0.004	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01

Statistical Summary

Number of Results	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Minimum Concentration	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	0.004	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	0.004	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																															
Median Concentration	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.005	0.004	0.005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.005	
Standard Deviation																															
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table E2: Groundwater Results

	Halogenated Hydrocarbons				Halogenated Benzenes									Solvents	PAH/Phenols														
	1,2-dibromosthane	Bromomethane	Dichlorodifluoromethane	Trichlorofluoromethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Cyclohexane	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Napthalene	Phenanthrene	Phenolics Total	Pyrene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.05	0.0001
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, 2-4m																										NL			
NEPM 2013 Table 1A(4) Rec HSL C GW for Vapour Intrusion, San 2-4m																										NL			
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusi 2-4m																										NL			
NEPM 2013 Table 1C GILs, Fresh Waters					0.003	0.085	0.16	0.26	0.06																	0.016			
NEPM 2013 Table 1C GILs, Drinking Water		0.001			0.03	0.03	1.5		0.04				0.3							0.00001									

Field_ID	LocCode	WellCode	Sampled_Date-Time																										
BD13102017	BD13102017		13/10/2017	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.05	<0.0001
GW7	GW7		13/10/2017	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.05	<0.0001

Statistical Summary

Number of Results	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Minimum Concentration	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.05	<0.0001
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.001	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.05	<0.0001
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																												
Median Concentration	0.0005	0.005	0.005	0.005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.0001	0.00005	0.025	0.00005
Standard Deviation																												
Number of Guideline Exceedances	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Well_ID	LocCode	Sample_Depth_Range	Sampled_Date/Time	Matrix_Description	<1.3	<0.5	<0.5	<0.5	<0.2	0.3	7.6	<4	<0.4	2	4	25	-	<0.1	1	28	<50	<100	<100	<50	<25	<50	<100	<100	<250	<50	<25	<25	<0.2	<1	<0.5	<2	<1	<1	<0.1	0.81	<0.1	<0.1	<0.1	<0.1	0.06	-	<0.1	0.121	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<
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Preliminary Site Investigation for Contamination
 Randwick Campus Redevelopment

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 Project 72505 12.R.001.Rev
 February 201

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Preliminary Site Investigation for Contamination Randwick Campus Redevelopment

CERTIFICATE OF ANALYSIS 176094

Client Details

Client	Douglas Partners Pty Ltd
Attention	Paul Gorman, Paula Maurici
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>72505.12, Randwick Campus Redevelopment</u>
Number of Samples	12 soil
Date samples received	20/09/2017
Date completed instructions received	20/09/2017

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	27/09/2017
Date of Issue	26/09/2017
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Asbestos Approved By

Analysed by Asbestos Approved Identifier: Paul Ching
 Authorised by Asbestos Approved Signatory: Lulu Scott

Results Approved By

Dragana Tomas, Senior Chemist
 Jeremy Faircloth, Organics Supervisor
 Long Pham, Team Leader, Metals
 Lulu Scott, Asbestos Supervisor
 Nick Sarlamis, Inorganics Supervisor

Authorised By



David Springer, General Manager

vTRH(C6-C10)/BTEXN in Soil

Our Reference		176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference	UNITS	BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	95	101	110	91	104

vTRH(C6-C10)/BTEXN in Soil

Our Reference		176094-6	176094-7	176094-8	176094-9	176094-10
Your Reference	UNITS	BH5	BH5	BD/20170919	TS/20170919	TB/20170919
Depth		0.9-1	1.3-1.4	-	-	-
Date Sampled		19/09/2017	19/09/2017	19/09/2017	19/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	[NA]	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	[NA]	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	[NA]	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	89%	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	89%	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	90%	<1
m+p-xylene	mg/kg	<2	<2	<2	91%	<2
o-Xylene	mg/kg	<1	<1	<1	91%	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	[NA]	<1
naphthalene	mg/kg	<1	<1	<1	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	94	101	92	90	103

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		176094-11
Your Reference	UNITS	TB/20170918
Depth		-
Date Sampled		18/09/2017
Type of sample		soil
Date extracted	-	21/09/2017
Date analysed	-	21/09/2017
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	104

svTRH (C10-C40) in Soil						
Our Reference		176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference	UNITS	BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	21/09/2017	21/09/2017	21/09/2017	22/09/2017	22/09/2017
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	66	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	4,400	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	3,000	<100	<100
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	170	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	170	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	6,600	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	1,300	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	8,100	<50	<50
Surrogate o-Terphenyl	%	75	75	#	84	84

svTRH (C10-C40) in Soil					
Our Reference		176094-6	176094-7	176094-8	176094-11
Your Reference	UNITS	BH5	BH5	BD1/20170919	TB/20170918
Depth		0.9-1	1.3-1.4	-	-
Date Sampled		19/09/2017	19/09/2017	19/09/2017	18/09/2017
Type of sample		soil	soil	soil	soil
Date extracted	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50
Surrogate o-Terphenyl	%	72	74	73	78

PAHs in Soil						
Our Reference		176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference	UNITS	BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Naphthalene	mg/kg	<0.1	<0.1	0.4	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	1.3	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	3.8	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	1.2	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	32	0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	15	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	160	0.7	0.1
Pyrene	mg/kg	0.1	<0.1	160	0.8	0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	75	0.4	<0.1
Chrysene	mg/kg	<0.1	<0.1	60	0.3	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	110	0.8	<0.2
Benzo(a)pyrene	mg/kg	0.06	<0.05	57	0.52	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	30	0.3	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	8.6	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	30	0.4	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	88	0.7	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	88	0.7	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	88	0.7	<0.5
Total +ve PAH's	mg/kg	0.3	<0.05	740	4.5	0.2
Surrogate <i>p</i> -Terphenyl-d14	%	110	109	106	118	98

PAHs in Soil					
Our Reference		176094-6	176094-7	176094-8	176094-11
Your Reference	UNITS	BH5	BH5	BD1/20170919	TB/20170918
Depth		0.9-1	1.3-1.4	-	-
Date Sampled		19/09/2017	19/09/2017	19/09/2017	18/09/2017
Type of sample		soil	soil	soil	soil
Date extracted	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.06	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	mg/kg	<0.05	<0.05	0.06	<0.05
Surrogate <i>p</i> -Terphenyl-d14	%	96	105	98	106

Organochlorine Pesticides in soil						
Our Reference		176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference	UNITS	BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017	22/09/2017
HCB	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Surrogate TCMX	%	94	93	86	93	94

Organophosphorus Pesticides						
Our Reference		176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference	UNITS	BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Surrogate TCMX	%	94	93	86	93	94

PCBs in Soil						
Our Reference	UNITS	176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference		BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date extracted	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Aroclor 1016	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Surrogate TCLMX	%	94	93	86	93	94

Acid Extractable metals in soil

Our Reference		176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference	UNITS	BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	4	<1	3	<1
Copper	mg/kg	4	2	100	2	<1
Lead	mg/kg	25	16	1	10	2
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	2	3	2	<1
Zinc	mg/kg	28	37	10	10	1

Acid Extractable metals in soil

Our Reference		176094-6	176094-7	176094-8	176094-11
Your Reference	UNITS	BH5	BH5	BD1/20170919	TB/20170918
Depth		0.9-1	1.3-1.4	-	-
Date Sampled		19/09/2017	19/09/2017	19/09/2017	18/09/2017
Type of sample		soil	soil	soil	soil
Date prepared	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Arsenic	mg/kg	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	<1	3	3	3
Copper	mg/kg	<1	<1	<1	1
Lead	mg/kg	<1	2	3	2
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	1	<1	<1
Zinc	mg/kg	<1	2	1	<1

Misc Soil - Inorg						
Our Reference	UNITS	176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference		BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Client Reference: 72505.12, Randwick Campus Redevelopment

Moisture						
Our Reference	UNITS	176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference		BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date prepared	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Moisture	%	7.6	8.5	3.4	18	17

Moisture					
Our Reference	UNITS	176094-6	176094-7	176094-8	176094-11
Your Reference		BH5	BH5	BD1/20170919	TB/20170918
Depth		0.9-1	1.3-1.4	-	-
Date Sampled		19/09/2017	19/09/2017	19/09/2017	18/09/2017
Type of sample		soil	soil	soil	soil
Date prepared	-	21/09/2017	21/09/2017	21/09/2017	21/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Moisture	%	14	20	20	0.2

Asbestos ID - soils						
Our Reference	UNITS	176094-1	176094-2	176094-3	176094-4	176094-5
Your Reference		BH1	BH2	BH4	BH4	BH5
Depth		0.5-0.6	0.3-0.4	0.07-0.15	0.5-0.6	0.4-0.5
Date Sampled		18/09/2017	18/09/2017	18/09/2017	18/09/2017	19/09/2017
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	26/09/2017	26/09/2017	26/09/2017	26/09/2017	26/09/2017
Sample mass tested	g	Approx. 40g	Approx. 30g	Approx. 40g	Approx. 30g	Approx. 30g
Sample Description	-	Brown sandy soil	Brown sandy soil	Black bituminous soil & rocks	Brown sandy soil	Brown sandy soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.

Method ID	Methodology Summary
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			21/09/2017	5	21/09/2017	21/09/2017		21/09/2017	[NT]
Date analysed	-			21/09/2017	5	21/09/2017	21/09/2017		21/09/2017	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-016	<25	5	<25	<25	0	99	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	<25	5	<25	<25	0	99	[NT]
Benzene	mg/kg	0.2	Org-016	<0.2	5	<0.2	<0.2	0	102	[NT]
Toluene	mg/kg	0.5	Org-016	<0.5	5	<0.5	<0.5	0	100	[NT]
Ethylbenzene	mg/kg	1	Org-016	<1	5	<1	<1	0	97	[NT]
m+p-xylene	mg/kg	2	Org-016	<2	5	<2	<2	0	97	[NT]
o-Xylene	mg/kg	1	Org-016	<1	5	<1	<1	0	96	[NT]
naphthalene	mg/kg	1	Org-014	<1	5	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	117	5	104	91	13	104	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			21/09/2017	5	21/09/2017	21/09/2017		21/09/2017	[NT]
Date analysed	-			21/09/2017	5	22/09/2017	22/09/2017		21/09/2017	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	5	<50	<50	0	94	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	5	<100	<100	0	92	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	5	<100	<100	0	91	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	5	<50	<50	0	94	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	5	<100	<100	0	92	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	5	<100	<100	0	91	[NT]
Surrogate o-Terphenyl	%		Org-003	78	5	84	74	13	84	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			21/09/2017	5	21/09/2017	21/09/2017		21/09/2017	[NT]
Date analysed	-			22/09/2017	5	22/09/2017	22/09/2017		22/09/2017	[NT]
Naphthalene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	99	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	110	[NT]
Phenanthrene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	107	[NT]
Anthracene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	5	0.1	<0.1	0	107	[NT]
Pyrene	mg/kg	0.1	Org-012	<0.1	5	0.1	<0.1	0	108	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	120	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	5	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	5	<0.05	<0.05	0	112	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	111	5	98	94	4	126	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			21/09/2017	5	21/09/2017	21/09/2017		21/09/2017	[NT]
Date analysed	-			22/09/2017	5	22/09/2017	22/09/2017		22/09/2017	[NT]
HCB	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	105	[NT]
gamma-BHC	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	98	[NT]
Heptachlor	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	91	[NT]
delta-BHC	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	97	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	95	[NT]
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	103	[NT]
Dieldrin	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	108	[NT]
Endrin	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	88	[NT]
pp-DDD	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	100	[NT]
Endosulfan II	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	86	[NT]
Methoxychlor	mg/kg	0.1	Org-005	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	90	5	94	91	3	122	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: Organophosphorus Pesticides					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			21/09/2017	5	21/09/2017	21/09/2017		21/09/2017	[NT]
Date analysed	-			22/09/2017	5	22/09/2017	22/09/2017		22/09/2017	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	85	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	87	[NT]
Dimethoate	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	88	[NT]
Fenitrothion	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	88	[NT]
Malathion	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	80	[NT]
Parathion	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	79	[NT]
Ronnel	mg/kg	0.1	Org-008	<0.1	5	<0.1	<0.1	0	97	[NT]
Surrogate TCMX	%		Org-008	90	5	94	91	3	90	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			21/09/2017	5	21/09/2017	21/09/2017		21/09/2017	[NT]
Date analysed	-			22/09/2017	5	22/09/2017	22/09/2017		22/09/2017	[NT]
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	5	<0.1	<0.1	0	99	[NT]
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	5	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCLMX	%		Org-006	90	5	94	91	3	90	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			21/09/2017	5	21/09/2017	21/09/2017		21/09/2017	[NT]
Date analysed	-			22/09/2017	5	22/09/2017	22/09/2017		22/09/2017	[NT]
Arsenic	mg/kg	4	Metals-020	<4	5	<4	<4	0	99	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	5	<0.4	<0.4	0	95	[NT]
Chromium	mg/kg	1	Metals-020	<1	5	<1	<1	0	96	[NT]
Copper	mg/kg	1	Metals-020	<1	5	<1	<1	0	93	[NT]
Lead	mg/kg	1	Metals-020	<1	5	2	1	67	94	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	5	<0.1	<0.1	0	107	[NT]
Nickel	mg/kg	1	Metals-020	<1	5	<1	<1	0	103	[NT]
Zinc	mg/kg	1	Metals-020	<1	5	1	2	67	99	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: Misc Soil - Inorg					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			22/09/2017	1	22/09/2017	22/09/2017		22/09/2017	[NT]
Date analysed	-			22/09/2017	1	22/09/2017	22/09/2017		22/09/2017	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	98	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Report Comments

OC_OP_PCBs in Soil - PQL has been raised due to interference from analytes (other than those being tested) in the sample/s.

Asbestos: A portion of the supplied sample was sub-sampled for asbestos analysis according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g of sample in its own container.

Note: Samples 176094-1 to 5 were sub-sampled from jars provided by the client.

TRH Soil C10-C40 NEPM - # Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

Project Name: Randwick Campus Redevelopment.....
Project No: 72505.12..... Sampler: A McIntyre.....
Project Mgr: Paul Gorman/Paula Maurici Mob. Phone 0408314017....
Email: maurici@douglaspartners.com.au;
paul.gorman@douglaspartners.com.au

To: Envirolab Services
12 Ashley Street, Chatswood NSW 2068
Attn: Tania Notaras
Phone: 02 9910 6200 Fax: 02 9910 6201
Date Required: standard... Lab Quote No.
Email: tnotaras@envirolabservices.com.au

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type	Container type	Analytes										Other	Notes
						Combo 8a	Combo 3	pH, CeC	TPH/BTEX								
BH1	0.5-0.6	1	18/9	S	G	✓											
BH2	0.3-0.4	2	18/9	S	G	✓											
BH4	0.07-0.13	3	18/9	S	G	✓											
BH4	0.5-0.6	4	18/9	S	G	✓											
BH5	0.4-0.5	5	18/9	S		✓											
BH5	0.9-1	6	19/9	S			✓										
BH5	1.3-1.4	7	19/9	S			✓										
BD1/20170919	9	9	19/9	S			✓										
TS20170919	9	9	19/9	S				✓									
TB20170919	10	10	19/9	S				✓									
TB20170918	11	11	18/9	S			✓										
BD1/20170918 (extra)	12	12															

Envirolab Services
12 Ashley St
Chatswood NSW 2068
Ph: (02) 9910 6200
Job No: 176094
Date Received: 20/9/17
Time Received: 18:05
Received by: MT
Temp: Cool/Ambient 5.9
Cooling: Ice/NoCool
Security: Vial Broken/None

Lab Report No:
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114

Phone: (02) 9809 0666
Fax: (02) 9809 4095

Relinquished by: PM Signed: [Signature] Date & Time: Received By: MT Date & Time: 20/9/17 18:05
Relinquished by: PM Signed: [Signature] Date & Time: Received By: Date & Time:

CERTIFICATE OF ANALYSIS 176094-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	Paul Gorman, Paula Maurici
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>72505.12, Randwick Campus Redevelopment</u>
Number of Samples	12 soil
Date samples received	20/09/2017
Date completed instructions received	19/10/2017

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	26/10/2017
Date of Issue	23/10/2017
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Steven Luong, Senior Chemist

Authorised By



David Springer, General Manager

PAHs in TCLP (USEPA 1311)		
Our Reference		176094-A-3
Your Reference	UNITS	BH4
Depth		0.07-0.15
Date Sampled		18/09/2017
Type of sample		soil
pH of soil for fluid# determ.	pH units	9.0
pH of soil TCLP (after HCl)	pH units	1.7
Extraction fluid used	-	1
pH of final Leachate	pH units	5.0
Date extracted	-	20/10/2017
Date analysed	-	20/10/2017
Naphthalene in TCLP	mg/L	<0.001
Acenaphthylene in TCLP	mg/L	<0.001
Acenaphthene in TCLP	mg/L	0.002
Fluorene in TCLP	mg/L	<0.001
Phenanthrene in TCLP	mg/L	0.006
Anthracene in TCLP	mg/L	0.002
Fluoranthene in TCLP	mg/L	0.006
Pyrene in TCLP	mg/L	0.005
Benzo(a)anthracene in TCLP	mg/L	<0.001
Chrysene in TCLP	mg/L	<0.001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001
Total +ve PAH's	mg/L	0.021
Surrogate <i>p</i> -Terphenyl-d14	%	83

Client Reference: 72505.12, Randwick Campus Redevelopment

Method ID	Methodology Summary
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using in house method INORG-004.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-012	Leachates are extracted with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: PAHs in TCLP (USEPA 1311)					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			20/10/2017	[NT]	[NT]	[NT]	[NT]	20/10/2017	[NT]
Date analysed	-			20/10/2017	[NT]	[NT]	[NT]	[NT]	20/10/2017	[NT]
Naphthalene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	72	[NT]
Acenaphthylene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	75	[NT]
Phenanthrene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	70	[NT]
Anthracene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	72	[NT]
Pyrene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	72	[NT]
Benzo(a)anthracene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	80	[NT]
Benzo(bjk)fluoranthene in TCLP	mg/L	0.002	Org-012	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	79	[NT]
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	115	[NT]	[NT]	[NT]	[NT]	75	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Report Comments

PAHs in TCLP USEPA 1311 - Analysis was performed outside recommended holding time.

Ken Nguyen

From: Paula Maurici <MauriciP@douglaspartners.com.au>
Sent: Thursday, 19 October 2017 12:32 PM
To: Ken Nguyen
Subject: Randwick Campus Redevelopment

Follow Up Flag: Follow up
Flag Status: Flagged

176094-A

Hi Ken

Can I please order the following TCLP testing for project 72505.12?

Report 176182
Sample BH3 (0.1-0.2) TCLP (metals)

Report 176094
Sample BH4 (0.07 - 0.15) TCLP (PAH) = 3

Thanks,

Paula Maurici Associate / Environmental Scientist
Douglas Partners Pty Ltd | ABN 75 053 980 117 | www.douglaspartners.com.au
96 Hermitage Road West Ryde NSW 2114 | PO Box 472 West Ryde NSW 1685
P: 02 9809 0666 | F: 02 9809 4095 | E: MauriciP@douglaspartners.com.au



ENVIRONMENTAL
CLIENT CHOICE
WINNER

From: Ken Nguyen [<mailto:KNguyen@envirolab.com.au>]
Sent: Tuesday, 17 October 2017 3:32 PM
To: Paul Gorman; Paula Maurici
Subject: Results for Registration 177363 72505.12, Randwick Campus Redevelopment

Please refer to attached for:
a copy of the Certificate of Analysis
a copy of the COC/paperwork received from you
ESDAT Extracts
an Excel or .csv file containing the results
Please note that a hard copy will not be posted.

We have a new reporting format and would welcome your feedback. Sydney@envirolab.com.au

Enquiries should be made directly to:
customerservice@envirolab.com.au

CERTIFICATE OF ANALYSIS 176182

Client Details

Client	Douglas Partners Pty Ltd
Attention	Paul Gorman, Paula Maurici
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>72505.12, Randwick Campus Redevelopment</u>
Number of Samples	4 soil
Date samples received	21/09/2017
Date completed instructions received	21/09/2017

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	28/09/2017
Date of Issue	27/09/2017
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Asbestos Approved By

Analysed by Asbestos Approved Identifier: Lucy Zhu
 Authorised by Asbestos Approved Signatory: Lulu Scott

Results Approved By

Dragana Tomas, Senior Chemist
 Jeremy Faircloth, Organics Supervisor
 Long Pham, Team Leader, Metals
 Lulu Scott, Asbestos Supervisor
 Nick Sarlamis, Inorganics Supervisor

Authorised By



David Springer, General Manager

vTRH(C6-C10)/BTEXN in Soil

Our Reference		176182-1	176182-2	176182-3	176182-4
Your Reference	UNITS	BH3	BH3	TS 20170921	BH3
Depth		0.1-0.2	0.7-0.8	-	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil	soil
Date extracted	-	22/09/2017	22/09/2017	22/09/2017	22/09/2017
Date analysed	-	25/09/2017	25/09/2017	25/09/2017	25/09/2017
TRH C ₆ - C ₉	mg/kg	<25	<25	[NA]	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	[NA]	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	[NA]	<25
Benzene	mg/kg	<0.2	<0.2	91%	<0.2
Toluene	mg/kg	<0.5	<0.5	90%	<0.5
Ethylbenzene	mg/kg	<1	<1	93%	<1
m+p-xylene	mg/kg	<2	<2	93%	<2
o-Xylene	mg/kg	<1	<1	92%	<1
Total +ve Xylenes	mg/kg	<1	<1	[NA]	<1
naphthalene	mg/kg	<1	<1	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	108	111	91	102

svTRH (C10-C40) in Soil				
Our Reference		176182-1	176182-2	176182-4
Your Reference	UNITS	BH3	BH3	BH3
Depth		0.1-0.2	0.7-0.8	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil
Date extracted	-	22/09/2017	22/09/2017	22/09/2017
Date analysed	-	23/09/2017	23/09/2017	23/09/2017
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50
Surrogate o-Terphenyl	%	78	74	74

PAHs in Soil				
Our Reference		176182-1	176182-2	176182-4
Your Reference	UNITS	BH3	BH3	BH3
Depth		0.1-0.2	0.7-0.8	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil
Date extracted	-	22/09/2017	22/09/2017	22/09/2017
Date analysed	-	25/09/2017	25/09/2017	25/09/2017
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.1	<0.1
Pyrene	mg/kg	<0.1	0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.07	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5
Total +ve PAH's	mg/kg	0.1	0.3	<0.05
Surrogate <i>p</i> -Terphenyl-d14	%	92	93	93

Organochlorine Pesticides in soil				
Our Reference		176182-1	176182-2	176182-4
Your Reference	UNITS	BH3	BH3	BH3
Depth		0.1-0.2	0.7-0.8	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil
Date extracted	-	22/09/2017	22/09/2017	22/09/2017
Date analysed	-	25/09/2017	25/09/2017	25/09/2017
HCB	mg/kg	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1
Surrogate TCMX	%	89	98	108

Organophosphorus Pesticides				
Our Reference		176182-1	176182-2	176182-4
Your Reference	UNITS	BH3	BH3	BH3
Depth		0.1-0.2	0.7-0.8	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil
Date extracted	-	22/09/2017	22/09/2017	22/09/2017
Date analysed	-	25/09/2017	25/09/2017	25/09/2017
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Surrogate TCMX	%	89	98	108

PCBs in Soil				
Our Reference	UNITS	176182-1	176182-2	176182-4
Your Reference		BH3	BH3	BH3
Depth		0.1-0.2	0.7-0.8	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil
Date extracted	-	22/09/2017	22/09/2017	22/09/2017
Date analysed	-	25/09/2017	25/09/2017	25/09/2017
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	89	98	108

Acid Extractable metals in soil				
Our Reference		176182-1	176182-2	176182-4
Your Reference	UNITS	BH3	BH3	BH3
Depth		0.1-0.2	0.7-0.8	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil
Date prepared	-	25/09/2017	25/09/2017	25/09/2017
Date analysed	-	25/09/2017	25/09/2017	25/09/2017
Arsenic	mg/kg	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	46	1	<1
Copper	mg/kg	63	4	3
Lead	mg/kg	7	29	6
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	79	1	<1
Zinc	mg/kg	42	24	3

Misc Soil - Inorg				
Our Reference		176182-1	176182-2	176182-4
Your Reference	UNITS	BH3	BH3	BH3
Depth		0.1-0.2	0.7-0.8	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil
Date prepared	-	22/09/2017	22/09/2017	22/09/2017
Date analysed	-	22/09/2017	22/09/2017	22/09/2017
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5

Moisture				
Our Reference	UNITS	176182-1	176182-2	176182-4
Your Reference		BH3	BH3	BH3
Depth		0.1-0.2	0.7-0.8	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil
Date prepared	-	22/09/2017	22/09/2017	22/09/2017
Date analysed	-	25/09/2017	25/09/2017	25/09/2017
Moisture	%	6.3	4.8	4.5

Asbestos ID - soils				
Our Reference	UNITS	176182-1	176182-2	176182-4
Your Reference		BH3	BH3	BH3
Depth		0.1-0.2	0.7-0.8	1.3-1.43
Date Sampled		21/09/2017	21/09/2017	21/09/2017
Type of sample		soil	soil	soil
Date analysed	-	26/09/2017	26/09/2017	26/09/2017
Sample mass tested	g	Approx. 20g	Approx. 15g	Approx. 20g
Sample Description	-	Grey coarse-grained soil & rocks	Brown sandy soil	Brown sandy soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.

Method ID	Methodology Summary
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			22/09/2017	[NT]	[NT]	[NT]	[NT]	22/09/2017	[NT]
Date analysed	-			25/09/2017	[NT]	[NT]	[NT]	[NT]	25/09/2017	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	118	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	118	[NT]
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	[NT]	[NT]	110	[NT]
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	[NT]	[NT]	117	[NT]
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	122	[NT]
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	119	[NT]
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	105	[NT]	[NT]	[NT]	[NT]	118	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			22/09/2017	[NT]	[NT]	[NT]	[NT]	22/09/2017	[NT]
Date analysed	-			23/09/2017	[NT]	[NT]	[NT]	[NT]	23/09/2017	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	121	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	121	[NT]
Surrogate o-Terphenyl	%		Org-003	88	[NT]	[NT]	[NT]	[NT]	81	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			22/09/2017	[NT]	[NT]	[NT]	[NT]	22/09/2017	[NT]
Date analysed	-			25/09/2017	[NT]	[NT]	[NT]	[NT]	25/09/2017	[NT]
Naphthalene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Phenanthrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Pyrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	[NT]	[NT]	[NT]	[NT]	102	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	94	[NT]	[NT]	[NT]	[NT]	90	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			22/09/2017	[NT]	[NT]	[NT]	[NT]	22/09/2017	[NT]
Date analysed	-			25/09/2017	[NT]	[NT]	[NT]	[NT]	25/09/2017	[NT]
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	70	[NT]
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-005	105	[NT]	[NT]	[NT]	[NT]	120	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: Organophosphorus Pesticides					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			22/09/2017	[NT]	[NT]	[NT]	[NT]	22/09/2017	[NT]
Date analysed	-			25/09/2017	[NT]	[NT]	[NT]	[NT]	25/09/2017	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	74	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	70	[NT]
Dimethoate	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethion	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Malathion	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Parathion	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	71	[NT]
Ronnel	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Surrogate TCMX	%		Org-008	105	[NT]	[NT]	[NT]	[NT]	106	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: PCBs in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			22/09/2017	[NT]	[NT]	[NT]	[NT]	22/09/2017	[NT]
Date analysed	-			25/09/2017	[NT]	[NT]	[NT]	[NT]	25/09/2017	[NT]
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCLMX	%		Org-006	105	[NT]	[NT]	[NT]	[NT]	106	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			25/09/2017	[NT]	[NT]	[NT]	[NT]	25/09/2017	[NT]
Date analysed	-			25/09/2017	[NT]	[NT]	[NT]	[NT]	25/09/2017	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	110	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	105	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]

Client Reference: 72505.12, Randwick Campus Redevelopment

QUALITY CONTROL: Misc Soil - Inorg						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			22/09/2017	[NT]	[NT]	[NT]	[NT]	22/09/2017	[NT]
Date analysed	-			22/09/2017	[NT]	[NT]	[NT]	[NT]	22/09/2017	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	[NT]	[NT]	[NT]	[NT]	98	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Report Comments

Asbestos: Excessive sample volume was provided for asbestos analysis. A portion of the supplied sample was sub-sampled according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g (50mL) of sample in its own container as per AS4964-2004.

Note: Samples 176182-1, 2, 4 were sub-sampled from bags provided by the client.

Project Name: Randwick Campus Redevelopment.....
Project No: 72505.12..... Sampler: A McIntyre.....
Project Mgr : Paul Gorman/Paula Maurici Mob. Phone 0408314017....
Email: mauricip@douglaspartners.com.au;
paul.gorman@douglaspartners.com.au

To: Envirolab Services
12 Ashley Street, Chatswood NSW 2068
Attn: Tania Notaras
Phone: 02 9910 6200 Fax: 02 9910 6201
Date Required: standard... Lab Quote No.
Email: tnotaras@envirolabservices.com.au

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type	Container type	Analytes											Notes		
						Combo 8a	Combo 3	pH, CeC	TKH BTEX									Other	
BH 3	0.1-0.2		21/9	G	G	✓													
BH 3	0.7-0.8		21/9	B	G	✓													
TS 20170921			21/9	S	G				✓										
BH 3	1.3-1.4					✓													
															</				

Lab Report No.
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114

Phone: (02) 9809 0666

Fax: (02) 9809 4095

Relinquished by: Pmm Signed: [Signature] Date & Time: _____
Relinquished by: [Signature] Signed: [Signature] Date & Time: _____

Received By: Elton White

Date & Time: 210917.1735. JMS