





Event First Flooded		Impact (m)				
Above Floor Level			-0.420.3	277		
	PMF Event		-0.30.2	No.		
	0.2% AEP Event		-0.20.1	2.00 A		
	1% AEP Event		-0 10 05	100		
	2% AEP Event		-0.050.01	E AL		
	5% AEP Event		Minimal Impact	and the		
	10% AEP Event		0.01 - 0.05			
	20% AEP Event		0.05 - 0.1	1.15		
	50% AEP Event		0.1 - 0.2			
	Not Flooded		0.2 - 0.36	1. 196 M		
	No Longer Flooded ABove Floor Level in		No Longer Flooded			
	10% AEP		Newly Flooded	1. 234		
	 Upgraded Pipes 			111		
	200	300	400			
			m	16		













APPENDIX A: GLOSSARY

Taken from the Floodplain Development Manual (April 2005 edition)

acid sulfate soils	Are sediments which contain sulfidic mineral pyrite which may become extremely acid following disturbance or drainage as sulfur compounds react when exposed to oxygen to form sulfuric acid. More detailed explanation and definition can be found in the NSW Government Acid Sulfate Soil Manual published by Acid Sulfate Soil Management Advisory Committee.
Annual Exceedance Probability (AEP)	The chance of a flood of a given or larger size occurring in any one year, usually expressed as a percentage. For example, if a peak flood discharge of 500 m ³ /s has an AEP of 5%, it means that there is a 5% chance (that is one-in-20 chance) of a 500 m ³ /s or larger event occurring in any one year (see ARI).
Australian Height Datum (AHD)	A common national surface level datum approximately corresponding to mean sea level.
Average Annual Damage (AAD)	Depending on its size (or severity), each flood will cause a different amount of flood damage to a flood prone area. AAD is the average damage per year that would occur in a nominated development situation from flooding over a very long period of time.
Average Recurrence Interval (ARI)	The long term average number of years between the occurrence of a flood as big as, or larger than, the selected event. For example, floods with a discharge as great as, or greater than, the 20 year ARI flood event will occur on average once every 20 years. ARI is another way of expressing the likelihood of occurrence of a flood event.
caravan and moveable home parks	Caravans and moveable dwellings are being increasingly used for long-term and permanent accommodation purposes. Standards relating to their siting, design, construction and management can be found in the Regulations under the LG Act.
catchment	
	The land area draining through the main stream, as well as tributary streams, to a particular site. It always relates to an area above a specific location.
consent authority	The land area draining through the main stream, as well as tributary streams, to a particular site. It always relates to an area above a specific location. The Council, government agency or person having the function to determine a development application for land use under the EP&A Act. The consent authority is most often the Council, however legislation or an EPI may specify a Minister or public authority (other than a Council), or the Director General of DIPNR, as having the function to determine an application.
consent authority development	The land area draining through the main stream, as well as tributary streams, to a particular site. It always relates to an area above a specific location. The Council, government agency or person having the function to determine a development application for land use under the EP&A Act. The consent authority is most often the Council, however legislation or an EPI may specify a Minister or public authority (other than a Council), or the Director General of DIPNR, as having the function to determine an application. Is defined in Part 4 of the Environmental Planning and Assessment Act (EP&A Act).
consent authority development	The land area draining through the main stream, as well as tributary streams, to a particular site. It always relates to an area above a specific location. The Council, government agency or person having the function to determine a development application for land use under the EP&A Act. The consent authority is most often the Council, however legislation or an EPI may specify a Minister or public authority (other than a Council), or the Director General of DIPNR, as having the function to determine an application. Is defined in Part 4 of the Environmental Planning and Assessment Act (EP&A Act). infill development: refers to the development of vacant blocks of land that are generally surrounded by developed properties and is permissible under the current zoning of the land. Conditions such as minimum floor levels may be imposed on infill development.

redevelopment: refers to rebuilding in an area. For example, as urban areas age, it may become necessary to demolish and reconstruct buildings on a relatively large scale. Redevelopment generally does not require either rezoning or major extensions to urban services.

- **disaster plan (DISPLAN)** A step by step sequence of previously agreed roles, responsibilities, functions, actions and management arrangements for the conduct of a single or series of connected emergency operations, with the object of ensuring the coordinated response by all agencies having responsibilities and functions in emergencies.
- discharge The rate of flow of water measured in terms of volume per unit time, for example, cubic metres per second (m³/s). Discharge is different from the speed or velocity of flow, which is a measure of how fast the water is moving for example, metres per second (m/s).
- ecologically sustainable
development (ESD)Using, conserving and enhancing natural resources so that ecological processes,
on which life depends, are maintained, and the total quality of life, now and in the
future, can be maintained or increased. A more detailed definition is included in the
Local Government Act 1993. The use of sustainability and sustainable in this
manual relate to ESD.
- effective warning time The time available after receiving advice of an impending flood and before the floodwaters prevent appropriate flood response actions being undertaken. The effective warning time is typically used to move farm equipment, move stock, raise furniture, evacuate people and transport their possessions.
- emergency management A range of measures to manage risks to communities and the environment. In the flood context it may include measures to prevent, prepare for, respond to and recover from flooding.
- flash flooding Flooding which is sudden and unexpected. It is often caused by sudden local or nearby heavy rainfall. Often defined as flooding which peaks within six hours of the causative rain.
- flood Relatively high stream flow which overtops the natural or artificial banks in any part of a stream, river, estuary, lake or dam, and/or local overland flooding associated with major drainage before entering a watercourse, and/or coastal inundation resulting from super-elevated sea levels and/or waves overtopping coastline defences excluding tsunami.
- flood awarenessFlood awareness is an appreciation of the likely effects of flooding and a knowledge
of the relevant flood warning, response and evacuation procedures.
- flood education Flood education seeks to provide information to raise awareness of the flood problem so as to enable individuals to understand how to manage themselves an their property in response to flood warnings and in a flood event. It invokes a state of flood readiness.
- flood fringe areasThe remaining area of flood prone land after floodway and flood storage areas have
been defined.
- **flood liable land** Is synonymous with flood prone land (i.e. land susceptible to flooding by the probable maximum flood (PMF) event). Note that the term flood liable land covers the whole of the floodplain, not just that part below the flood planning level (see flood planning area).
- flood mitigation standard

	The average recurrence interval of the flood, selected as part of the floodplain risk management process that forms the basis for physical works to modify the impacts of flooding.
floodplain	Area of land which is subject to inundation by floods up to and including the probable maximum flood event, that is, flood prone land.
floodplain risk management options	The measures that might be feasible for the management of a particular area of the floodplain. Preparation of a floodplain risk management plan requires a detailed evaluation of floodplain risk management options.
floodplain risk management plan	A management plan developed in accordance with the principles and guidelines in this manual. Usually includes both written and diagrammetic information describing how particular areas of flood prone land are to be used and managed to achieve defined objectives.
flood plan (local)	A sub-plan of a disaster plan that deals specifically with flooding. They can exist at State, Division and local levels. Local flood plans are prepared under the leadership of the State Emergency Service.
flood planning area	The area of land below the flood planning level and thus subject to flood related development controls. The concept of flood planning area generally supersedes the Aflood liable land@ concept in the 1986 Manual.
Flood Planning Levels (FPLs)	FPL=s are the combinations of flood levels (derived from significant historical flood events or floods of specific AEPs) and freeboards selected for floodplain risk management purposes, as determined in management studies and incorporated in management plans. FPLs supersede the Astandard flood event@ in the 1986 manual.
flood proofing	A combination of measures incorporated in the design, construction and alteration of individual buildings or structures subject to flooding, to reduce or eliminate flood damages.
flood prone land	Is land susceptible to flooding by the Probable Maximum Flood (PMF) event. Flood prone land is synonymous with flood liable land.
flood readiness	Flood readiness is an ability to react within the effective warning time.
flood risk	Potential danger to personal safety and potential damage to property resulting from flooding. The degree of risk varies with circumstances across the full range of floods. Flood risk in this manual is divided into 3 types, existing, future and continuing risks. They are described below.
	existing flood risk: the risk a community is exposed to as a result of its location on the floodplain.
	future flood risk: the risk a community may be exposed to as a result of new development on the floodplain.
	continuing flood risk: the risk a community is exposed to after floodplain risk management measures have been implemented. For a town protected by levees, the continuing flood risk is the consequences of the levees being overtopped. For an area without any floodplain risk management measures, the continuing flood risk is simply the existence of its flood exposure.
flood storage areas	Those parts of the floodplain that are important for the temporary storage of floodwaters during the passage of a flood. The extent and behaviour of flood

	storage areas may change with flood severity, and loss of flood storage can increase the severity of flood impacts by reducing natural flood attenuation. Hence, it is necessary to investigate a range of flood sizes before defining flood storage areas.
floodway areas	Those areas of the floodplain where a significant discharge of water occurs during floods. They are often aligned with naturally defined channels. Floodways are areas that, even if only partially blocked, would cause a significant redistribution of flood flows, or a significant increase in flood levels.
freeboard	Freeboard provides reasonable certainty that the risk exposure selected in deciding on a particular flood chosen as the basis for the FPL is actually provided. It is a factor of safety typically used in relation to the setting of floor levels, levee crest levels, etc. Freeboard is included in the flood planning level.
habitable room	in a residential situation: a living or working area, such as a lounge room, dining room, rumpus room, kitchen, bedroom or workroom.
	in an industrial or commercial situation: an area used for offices or to store valuable possessions susceptible to flood damage in the event of a flood.
hazard	A source of potential harm or a situation with a potential to cause loss. In relation to this manual the hazard is flooding which has the potential to cause damage to the community. Definitions of high and low hazard categories are provided in the Manual.
hydraulics	Term given to the study of water flow in waterways; in particular, the evaluation of flow parameters such as water level and velocity.
hydrograph	A graph which shows how the discharge or stage/flood level at any particular location varies with time during a flood.
hydrology	Term given to the study of the rainfall and runoff process; in particular, the evaluation of peak flows, flow volumes and the derivation of hydrographs for a range of floods.
local overland flooding	Inundation by local runoff rather than overbank discharge from a stream, river, estuary, lake or dam.
local drainage	Are smaller scale problems in urban areas. They are outside the definition of major drainage in this glossary.
mainstream flooding	Inundation of normally dry land occurring when water overflows the natural or artificial banks of a stream, river, estuary, lake or dam.
major drainage	 Councils have discretion in determining whether urban drainage problems are associated with major or local drainage. For the purpose of this manual major drainage involves: \$ the floodplains of original watercourses (which may now be piped, channelised or diverted), or sloping areas where overland flows develop along alternative paths once system capacity is exceeded; and/or
	water deptns generally in excess of 0.3 m (in the major system design sform as defined in the current version of Australian Rainfall and Runoff). These conditions may result in danger to personal safety and property damage to both premises and vehicles; and/or

	\$ major overland flow paths through developed areas outside of defined drainage reserves; and/or				
	\$ the potential to affect a number of buildings along the major flow path.				
mathematical/computer models	The mathematical representation of the physical processes involved in runoff generation and stream flow. These models are often run on computers due to the complexity of the mathematical relationships between runoff, stream flow and the distribution of flows across the floodplain.				
merit approach	The merit approach weighs social, economic, ecological and cultural impacts of land use options for different flood prone areas together with flood damage, hazard and behaviour implications, and environmental protection and well being of the State=s rivers and floodplains.				
	The merit approach operates at two levels. At the strategic level it allows for the consideration of social, economic, ecological, cultural and flooding issues to determine strategies for the management of future flood risk which are formulated into Council plans, policy and EPIs. At a site specific level, it involves consideration of the best way of conditioning development allowable under the floodplain risk management plan, local floodplain risk management policy and EPIs.				
minor, moderate and major flooding	Both the State Emergency Service and the Bureau of Meteorology use the following definitions in flood warnings to give a general indication of the types of problems expected with a flood:				
	minor flooding: causes inconvenience such as closing of minor roads and the submergence of low level bridges. The lower limit of this class of flooding on the reference gauge is the initial flood level at which landholders and townspeople begin to be flooded.				
	moderate flooding: low-lying areas are inundated requiring removal of stock and/or evacuation of some houses. Main traffic routes may be covered.				
	major flooding: appreciable urban areas are flooded and/or extensive rural areas are flooded. Properties, villages and towns can be isolated.				
modification measures	Measures that modify either the flood, the property or the response to flooding. Examples are indicated in Table 2.1 with further discussion in the Manual.				
peak discharge	The maximum discharge occurring during a flood event.				
Probable Maximum Flood (PMF)	The PMF is the largest flood that could conceivably occur at a particular location usually estimated from probable maximum precipitation, and where applicable snow melt, coupled with the worst flood producing catchment conditions Generally, it is not physically or economically possible to provide complet protection against this event. The PMF defines the extent of flood prone land, that is, the floodplain. The extent, nature and potential consequences of floodin associated with a range of events rarer than the flood used for designing mitigatio works and controlling development, up to and including the PMF event should be addressed in a floodplain risk management study.				
Probable Maximum Precipitation (PMP)	The PMP is the greatest depth of precipitation for a given duration meteorologically possible over a given size storm area at a particular location at a particular time of the year, with no allowance made for long-term climatic trends (World Meteorological Organisation, 1986). It is the primary input to PMF estimation.				

probability	A statistical measure of the expected chance of flooding (see AEP).
risk	Chance of something happening that will have an impact. It is measured in terms of consequences and likelihood. In the context of the manual it is the likelihood of consequences arising from the interaction of floods, communities and the environment.
runoff	The amount of rainfall which actually ends up as streamflow, also known as rainfall excess.
stage	Equivalent to Awater level@. Both are measured with reference to a specified datum.
stage hydrograph	A graph that shows how the water level at a particular location changes with time during a flood. It must be referenced to a particular datum.
survey plan	A plan prepared by a registered surveyor.
water surface profile	A graph showing the flood stage at any given location along a watercourse at a particular time.
wind fetch	The horizontal distance in the direction of wind over which wind waves are generated.







Rushcutters Bay Catchment Floodplain Risk Management Study and Plan

June 2014

The City of Sydney is preparing a Floodplain Risk Management Study and Plan for the Rushcutters Bay catchment area and we would like your help.

The study will tell us about the type of flood mitigation solutions feasible for the catchment and help us plan for and manage any flood risks.

Good management of flood risks can help reduce damage and improve social and economic opportunities. SYDNEY (82)

cityofsydney.nsw.gov.au/floodplain-management



The City of Sydney has engaged WMAwater to assist with the preparation of the Rushcutters Bay Floodplain Risk Management Study and Plan.

The Rushcutters Bay Flood Study was completed by WMAwater in July 2013, giving the City of Sydney a better understanding of the nature of flooding in your area. The next step in the NSW Government Flood Management Process is the preparation of a Floodplain Risk Management Study and Plan. The purpose of this study and Plan is to identify and recommend appropriate actions to manage flood risks in the Rushcutters Bay area.

This brochure is an introduction to the Floodplain Risk Management Study and Plan and its objectives.

Stages of the NSW Government Floodplain Management Process

- 1. Formation of a Committee - complete
- 2. Data Collection complete
- 3. Flood Study complete
- 4. Floodplain Risk Management Study
- 5. Floodplain Risk Management Plan
- 6. Implementation of Plan.

For more information please contact:

WMAwater Steve Gray Phone 02 9299 2855 Fax: 02 9262 6208 gray@wmawater.com.au City of Sydney Shah Alam Phone: 02 9288 5925 salam@cityofsydney.nsw.gov.au



Study area and flooding issues

The Rushcutters Bay study area includes parts of Rushcutters Bay, Elizabeth Bay, Darlinghurst and Paddington.

Much of the flooding in this catchment occurs due to natural depressions and low points. In the past, flooding has caused property damage and posed a hazard to people and property located near drainage areas. The Floodplain Risk Management Study and Plan currently being undertaken is to manage these flood risks.

Have your say

We want your comments about previous flood experiences and potential mitigation options.

The local knowledge of residents and business operators, including your personal experiences of flooding is a valuable source of information.

The information you provide in the accompanying questionnaire will help the City of Sydney determine how to manage the floods in your area.

For more information about this project, please contact the City of Sydney or WMAwater via the details provided.



Floodplain risk management options

The following list of floodplain risk management options are examples of the type of strategies that could be considered to minimise risk and reduce the impact of flooding in the catchment. These options will be investigated in more detail during the preparation of the Management Study and Plan. The general categories of these options are:

Flood modification options.

Examples include:

- Construction of detention/retarding basins to reduce the peak flow downstream;
- Upgrading of drainage systems, upgrade of existing pipes or construction of new pipes; and
- Regrading of roads to provide better overland flowpaths.

Property modification options and planning control. Examples include:

- Building and development controls; and
- Flood-proofing measures, such as flood barriers.

Response modification options. Examples include:

- Revision of the Local Disaster Plan;
- Public awareness and education locality-based flooding information for residents;
- Public awareness and education flooding information for schools;
- Flood depth markers at major (flood-affected) road crossings;
- Continuation of existing public awareness and education campaigns; and
- Data collection strategies for future floods.

Local Resident/Land Owner Survey

The City of Sydney is carrying out a Floodplain Risk Management Study and Plan for the Rushcutters Bay catchment. Please return your completed questionnaire in the reply-paid envelope by 20 July 2014. Or complete the questionnaire online at www.cityofsydney.nsw.gov.au/floodplain-management.

1

Please provide the following details as we may contact you to discuss some of the information you have provided us. This is optional.

Name:				
Address:				
Contact phone numb	er:			
Email:				
2				
What is the best	way to contact you	?		
Letter (post)	Email	Phone		
3				
How many peopl	e regularly live/wo	rk on this property?		
4				
How many of the	permanent reside	nts/workers are in age g	group below:	
0–4 years	5–14 years	15–64 years	65+ years	
5				
What is the main	language spoken	at this address?		
English				
Other (please spec	cify)			

6
Is your property (please tick)
Owner occupied Occupied by a tenant Business
Other (please specify)
7
What type of structure is your property/business? (please tick)
Freestanding house
Dual occupancy
8
How long have you lived, worked at, and/or owned this property?
Years
Months
9 Here was averaging of the dimensional living and/or working in the Duche stars. Device tabutant 2
(please tick relevant boxes)
Yes, floodwaters entered my house/business
Yes, floodwaters entered my yard/surrounds of my business
Yes, the road was flooded and I couldn't get to my car
Yes, other parts of my neighbourhood were flooded
No, I haven't experienced flooding
10
Do you have any materials or photos you can provide to evidence the flooding you experienced? If yes, when did this flood occur?

🗌 No

Yes – the flooding occurred on:

.....



As a local resident who may have witnessed flooding/drainage problems, you may have your own ideas about how to reduce flood risks. Which of the following do you prefer (1=most preferred, 5=least preferred)?

Proposed option	Pr	efe	erei	nce	
Retarding or detention basins (these temporarily hold water and reduce peak flood flows) —	1	2	3	4	5
Suggested location/other comments:					
Improved flood flow paths —	1	2	3	4	5
Suggested location/other comments:					
Culvert/bridge enlarging —	1	2	3	4	5
Suggested location/other comments:					
Pit and pipe upgrades —	1	2	3	4	5
Suggested location/other comments:					
Levee banks or flood walls —	1	2	3	4	5
Suggested location/other comments:					
Strategic planning and flood related development controls —	1	2	3	4	5
Suggested location/other comments:					
Education of the community, providing greater awareness of potential hazards —	1	2	3	4	5
Suggested location/other comments:					
Flood forecasting, flood warnings, evacuation planning and emergency response measures —	1	2	3	4	5
Suggested location/other comments:					
Other (please specify any options you think are suitable):					

If you have any further comments that relate to the Rushcutters Bay Flood Management Study and Plan, please write them in the space below. Feel free to attach additional pages if necessary.

Glossary

Culvert - a piped drain or covered channel that passes under a road or railroad.

Levee bank/flood wall – an embankment or wall, usually constructed from earth or concrete, built along the banks of a watercourse to help prevent overflow of its waters.

Retarding/detention basin – depression in the land surface that captures and holds stormwater runoff allowing it to slowly drain out of the basin into the adjoining natural drainage line or creek.

Privacy notice The information supplied will be used by the City of Sydney and its consultants to consider flooding matters within the local government area. Personal information will remain confidential, however responses may be accessed by third parties through the Government Information (Public Access) Act 2009.







Item No. Description of Work Quantity Unit Pate RB01 I General Construction Costs Item 0	Table C1:	Cost Estimate - Option FM-RB01 - Boundary Street Pipe Upgr	ade			
1 General Construction Costs Image: Construction Costs Site atbilishment, security foncing, facilities and 1, linem 0 0 1.2 Provision of sediment and erosion control 1, linem 0 0 1.3 Construction setout and survey 1, liem 0 0 1.4 Work as executed survey and documentation 1, liem 0 0 1.5 Geotechnical supervision, testing and certification 1, liem 0 0 2.1 Clearing and grubbing 9, g., m 11 0 0 2.1 Clearing and grubbing 0, g., m 11 0 0 2.3 Dispose of excess topsoil (nominal 10% allowance) 0, G., m 65, 867 0 3.4 Pull up and dispose existing road surface 1, 504 sq., m 38 56,867 4.1 Installation of Drainage 17 11, m 99 16,683 3.5 uppky, excavate, bed, lay, joint, backfill and provide 17 11, m 178 4.2 connections 1.2m dia. Pipe 176 11, m 1,822 313,263 3.5 uppky, excavate, bed, lay, joint, backfill and provide 16 16	Item No.	Description of Work	Quantity	Unit	Rate	RB01
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1.4 Work as executed survey and documentation 1 item 0 0 1.5 Geotechnical supervision, testing and certification 1 item 0 0 SubTOTAL (Assumed as 15% of works cost) 1 1 1 0 0 2.1 Clearing and grubbing 0	1.3	Construction setout and survey	1	item	0	0
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Sour Tork (assumed as 10.8 of norms cost) \$ 394,073 2 Demolition and Clearing 0 sq. m 11 0 2.1 Clearing and grubbing 0 sq. m 11 0 2.2 depth) 0 cu.m 65 0 2.3 Dispose of excess topsoil (nominal 10% allowance) 0 cu.m 65 0 2.4 Pull up and dispose existing road surface 1,504 sq. m 38 568,867 Supply, excavate, bed, lay, joint, backfill and provide 7 in.m 99 16,633 Supply, excavate, bed, lay, joint, backfill and provide 7 in.m 1,728 64,084 Supply, excavate, bed, lay, joint, backfill and provide 7 in.m 1,728 64,084 Supply, excavate, bed, lay, joint, backfill and provide 176 in.m 1,782 313,263 Supply, excavate, bed, lay, joint, backfill and provide 12 in.m 1,728 64,084 Supply, excavate, bed, lay, joint, backfill and provide 42 connections 1.5m toff. 43,753 Supply, excavate, bed, lay, joint, backfill and provide 21 in.m 3,024 58,086		SUBTOTAL (Assumed as 15% of works cost)				¢ 504.075
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Ship Oppoint and Stockpie for Pedec (assuming 100min) 0	2.1	Clearing and grubbing	0	sq. m	11	0
2.2 Ueptin 0		Ship topson and stockpile for re-use (assuming roomin	0		07	0
2.3.Dispose of excess topsole (infinital TVs allowance) 0.00.11 65 0.00.11 65 0.00.11 65 66.867 SUBTOTAL 1.004 5.06.867 5.00 5.067 5.00 5.067 5.00 5.067 5.00 5.00 5.067 5.00 <td< th=""><th>2.2</th><th>depin)</th><th>0</th><th>cu. m</th><th>27</th><th>0</th></td<>	2.2	depin)	0	cu. m	27	0
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SUB PTAL Image Image Supply, excavate, bed, lay, joint, backfill and provide 17 lin. m 999 16,683 Supply, excavate, bed, lay, joint, backfill and provide 37 lin. m 1,728 64,044 At connections twin 0.9m dia. Pipe 37 lin. m 1,728 64,044 Supply, excavate, bed, lay, joint, backfill and provide 17 lin. m 1,728 64,044 4.4 connections 1.2m dia. Pipe 176 lin. m 1,728 313,263 Supply, excavate, bed, lay, joint, backfill and provide 1 2,430 98,026 Supply, excavate, bed, lay, joint, backfill and provide 12 lin. m 3,564 43,753 Supply, excavate, bed, lay, joint, backfill and provide 12 lin. m 3,564 43,753 Supply, excavate, bed, lay, joint, backfill and provide 10 lin. m 3,024 58,088 4.21 connections 1.5m x 1.5m culvert 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 10 lin. m 3,456 96,138 Install new drainage/junction pit (assumed 1 pit per 5m of 10 s 3,302,	2.4	Pull up and dispose existing road surface	1,504	sq. m	38	56,867
A installation of Drainage 1 Supply, excavate, bed, lay, joint, backfill and provide 17 A.4 connections 0.45m dia. Pipe 37 Supply, excavate, bed, lay, joint, backfill and provide 37 Supply, excavate, bed, lay, joint, backfill and provide 37 A.5 connections 1.5m dia. Pipe 37 Supply, excavate, bed, lay, joint, backfill and provide 176 A.6 connections 1.5m dia. Pipe 40 Supply, excavate, bed, lay, joint, backfill and provide 12 Supply, excavate, bed, lay, joint, backfill and provide 12 Supply, excavate, bed, lay, joint, backfill and provide 12 Supply, excavate, bed, lay, joint, backfill and provide 12 Supply, excavate, bed, lay, joint, backfill and provide 12 Supply, excavate, bed, lay, joint, backfill and provide 11.142,076 Supply, excavate, bed, lay, joint, backfill and provide 19 Supply, excavate, bed, lay, joint, backfill and provide 11.142,076 Supply, excavate, bed, lay, joint, backfill and provide 10.142,076 Supply, excavate, bed, lay, joint, backfill and provide 10.122,016 Supply, excavate, bed, lay, joint, backfill and provide 28						\$ 56,867
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4.4 connections twin 0.9m dia. Pipe 37 flin. m 1,728 64.084 Supply, excavate, bed, lay, joint, backfill and provide 1 1 313,263 Supply, excavate, bed, lay, joint, backfill and provide 1 1 1 313,263 Supply, excavate, bed, lay, joint, backfill and provide 2 1 1 3 98,026 Supply, excavate, bed, lay, joint, backfill and provide 12 1 3,564 43,753 Supply, excavate, bed, lay, joint, backfill and provide 2 1 1,142,076 Supply, excavate, bed, lay, joint, backfill and provide 4.23 1 1,142,076 Supply, excavate, bed, lay, joint, backfill and provide 1 1 1,142,076 Supply, excavate, bed, lay, joint, backfill and provide 1 1 1,142,076 Supply, excavate, bed, lay, joint, backfill and provide 1 1 1,420,76 Addia connections 1.5m x 1.5m culvert 1 1 1 1,420,76 Install new drainage/junction pit (assumed 1 pit per 5m of 1 1 1,095,028 SUBTOTAL 1 \$ 3,302,464 3 Adjustment of existing services (nominal allowance)<		Supply, excavate, bed, lay, joint, backfill and provide				
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4.5 connections 1.2m dia. Pipe 176 lin. m 1,782 313,283 Supply, excavate, bed, lay, joint, backfill and provide 40 lin. m 2,430 98,026 Supply, excavate, bed, lay, joint, backfill and provide 12 lin. m 3,564 43,753 Supply, excavate, bed, lay, joint, backfill and provide 21 1,142,076 4.21 connections 1.5m x 0.6m culvert 423 lin. m 2,700 1,142,076 Supply, excavate, bed, lay, joint, backfill and provide 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 1 4.24 648,000 4.24 connections 1.5m x 1.2m culvert 28 lin. m 3,456 96,138 Install new drainage/junction pit (assumed 1 pit per 5m of 150 each 4,320 648,000 Adjustment of existing services (nominal allowance) 1,095,028 3,302,464 7 Footpath and Road Surfaces 1 1,095,028 Reinstate disturbed road pavement, including demolition 1 1,04,973 SUBTOTAL \$ 194,973 194,973 SUBTOTAL \$ 194,973 194,973 <th></th> <th>Supply, excavate, bed, lay, joint, backfill and provide</th> <th></th> <th></th> <th></th> <th></th>		Supply, excavate, bed, lay, joint, backfill and provide				
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4.6 connections 1.5m dia. Pipe 40 lin. m 2,430 98,262 Supply, excavate, bed, lay, joint, backfill and provide 12 lin. m 3,564 43,753 Supply, excavate, bed, lay, joint, backfill and provide 12 lin. m 2,700 1,142,076 A.21 connections 1.5m x 0.6m culvert 423 lin. m 2,700 1,142,076 Supply, excavate, bed, lay, joint, backfill and provide 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 28 lin. m 3,456 96,138 Install new drainage/junction pit (assumed 1 pit per 5m of 150 each 4,320 648,000 Adjustment of existing services (nominal allowance) 1,095,028 1,095,028 1,095,028 SUBTOTAL \$ 3,302,464 \$ 1,095,028 3,302,464 19 lin. m 130 194,973 SUBTOTAL \$ \$ 3,302,464 \$ \$ 1,095,028 1,095,028 1,095,028 1,095,028 1,095,028 1,095,028 SUBTOTAL \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		Supply, excavate, bed, lay, joint, backfill and provide				
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4.8 connections 1.8m dia. Pipe 12 [in. m 3,564 43,753 Supply, excavate, bed, lay, joint, backfill and provide 423 [in. m 2,700 1,142,076 Supply, excavate, bed, lay, joint, backfill and provide 19 [in. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 19 [in. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 19 [in. m 3,456 96,138 Instail new drainage/junction pit (assumed 1 pit per 5m of 4,320 648,000 Adjustment of existing services (nominal allowance) 1,095,028 1,095,028 SUBTOTAL \$ 3,302,464 1,095,028 SUBTOTAL \$ 3,302,464 194,973 Protopath and Road Surfaces 1 194,973 SUBTOTAL \$ 194,973 SUBTOTAL \$ 194,973 9 Traffic Management \$ 194,973 CONTOR of traffic during works (nominal allowance) \$ 406,195 SUBTOTAL \$ 2,277,287 CONSTRUCTION SUBTOTAL \$ 2,277,287 CONSTRUCTION TOTAL, exc. GST \$ 6,831,861 GST CONSTRUCTION TOTAL, no. GST \$ 7,515,000		Supply, excavate, bed, lay, joint, backfill and provide				
Supply, excavate, bed, lay, joint, backfill and provide 423 lin. m 2,700 1,142,076 Supply, excavate, bed, lay, joint, backfill and provide 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 28 lin. m 3,456 96,138 Install new drainage/junction pit (assumed 1 pit per 5m of 28 lin. m 3,456 96,138 Adjustment of existing services (nominal allowance) 150 each 4,320 648,000 Adjustmed 30% of drainage installation cost) 1,095,028 1,095,028 1,095,028 SUBTOTAL \$ 3,302,464 \$ 3,302,464 194,973 Footpath and Road Surfaces \$ 1,095,028 194,973 SUBTOTAL \$ \$ 3,302,464 \$ 194,973 SUBTOTAL \$ \$ 4,06,195 \$ 406,195 Gontrol of traffic during works (nominal allowance) \$ \$ 4,06,195 9.1 (assumed \$500 per lin.m) 752 s \$ 4,06,195	4.8	connections 1.8m dia. Pipe	12	lin. m	3,564	43,753
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Supply, excavate, bed, lay, joint, backfill and provide 19 in. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 28 in. m 3,456 96,138 4.24 connections 1.8m x 1.2m culvert 28 in. m 3,456 96,138 Install new drainage/junction pit (assumed 1 pit per 5m of 28 in. m 3,456 96,138 4.49 pipe) 150 each 4,320 648,000 Adjustment of existing services (nominal allowance) 1 1,095,028 1,095,028 SUBTOTAL 1 \$ 3,302,464 1,095,028 7 Footpath and Road Surfaces 1 1 1,095,028 8 SUBTOTAL \$ 3,302,464 1 1,095,028 7 Footpath and Road Surfaces 1 1 1,095,028 8 SUBTOTAL \$ 3,302,464 1 1 1,095,028 9 Tarffic Management, including demolition 1,504 sq. m 130 194,973 9 Tarffic Management 1 \$ 194,973 130 194,973 194,973 9 SubBTOTAL \$ 406,	4.21	connections 1.5m x 0.6m culvert	423	lin. m	2,700	1,142,076
4.23 connections 1.5m x 1.5m culvert 19 lin. m 3,024 58,088 Supply, excavate, bed, lay, joint, backfill and provide 28 lin. m 3,456 96,138 Install new drainage/junction pit (assumed 1 pit per 5m of 28 lin. m 3,456 96,138 Adjustment of existing services (nominal allowance) 150 each 4,320 648,000 Adjustment of existing services (nominal allowance) 1,095,028 1,095,028 SUBTOTAL 2 \$ 3,302,464 7 Footpath and Road Surfaces 1 194,973 SUBTOTAL 5 3,302,464 194,973 9 Traffic Management 130 194,973 9 Traffic Management \$ 194,973 9 Traffic Management \$ 194,973 9.1 (assumed \$500 per lin.m) 752 lin. m 540 9.1 (assumed \$500 per lin.m) 752 \$ 4,554,574 11 Construction cost \$ 2,277,287 \$ 2,277,287 0 \$ 4,554,574 \$ 6,831,861 13.0 SUBTOTAL \$ 6,831,861 11 Control of traffic during works (nominal allowance) \$ 2,277,287		Supply, excavate, bed, lay, joint, backfill and provide				
Supply, excavate, bed, lay, joint, backfill and provide 28 lin. m 3,456 96,138 4.24 connections 1.8m x 1.2m culvert 28 lin. m 3,456 96,138 Install new drainage/junction pit (assumed 1 pit per 5m of 150 each 4,320 648,000 4.49 pipe) 150 each 4,320 648,000 Adjustment of existing services (nominal allowance) 1,095,028 1,095,028 SUBTOTAL \$ 3,302,464 7 Footpath and Road Surfaces 1 1,095,028 SUBTOTAL \$ 3,302,464 7 Footpath and Road Surfaces 1 1,095,028 SUBTOTAL \$ 1,094,073 \$ 1,094,973 194,973 194,973 SUBTOTAL \$ 194,973 194,973 194,973 9 Traffic Management \$ 194,973 194,973 Control of traffic during works (nominal allowance) \$ 194,973 406,195 SUBTOTAL \$ \$ 406,195 \$ 406,195 406,195 SUBTOTAL \$ \$ 406,195 \$ 406,195 \$ 406,195 SUBTOTAL \$ \$ \$ 405,195 \$ \$ 406,195 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.23	connections 1.5m x 1.5m culvert	19	lin. m	3,024	58,088
4.24 connections 1.8m x 1.2m culvert 28 lin. m 3,456 96,138 Install new drainage/junction pit (assumed 1 pit per 5m of 10 648,000 4.49 pipe) 150 each 4,320 648,000 Adjustment of existing services (nominal allowance) 1 1,095,028 SUBTOTAL \$ 3,302,464 1,095,028 SUBTOTAL \$ \$ 3,302,464 7 Footpath and Road Surfaces 1 194,973 Reinstate disturbed road pavement, including demolition 1,504 sq. m 130 194,973 SUBTOTAL \$ \$ 194,973 \$ 194,973 194,973 194,973 SUBTOTAL \$ \$ 194,973 \$ \$ 194,973 194,973 9 Traffic Management \$ \$ 194,973 \$ \$ 194,973 9 Traffic Management \$ \$ \$ 194,973 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		Supply, excavate, bed, lay, joint, backfill and provide				
install new drainage/junction pit (assumed 1 pit per 5m of 4.49 pipe) 150 each 4,320 648,000 Adjustment of existing services (nominal allowance) 150 each 4,320 648,000 Adjustment of existing services (nominal allowance) 1.095,028 1.095,028 SUBTOTAL \$ 3,302,464 7 Footpath and Road Surfaces 150 each \$ 194,973 8 Reinstate disturbed road pavement, including demolition and disposal of additional material to provide good jointing 1,504 sq. m 130 194,973 9 Traffic Management \$ 194,973 \$ 194,973 9 Control of traffic during works (nominal allowance) \$ 194,973 \$ 194,973 9.1 (assumed \$500 per lin.m) 752 lin. m 540 406,195 SUBTOTAL \$ \$ 406,195 \$ 406,195 \$ 406,195 9.1 (assumed \$500 per lin.m) 752 lin. m 540 \$ 406,195 9.1 CONSTRUCTION SUBTOTAL \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.24	connections 1.8m x 1.2m culvert	28	lın. m	3,456	96,138
4.49 pipe)150 each4,320648,000Adjustment of existing services (nominal allowance)1,095,0281,095,028SUBTOTAL\$ 3,302,4647 Footpath and Road Surfaces\$ 3,302,4647 Footpath and Road Surfaces1,504 sq. m8 Reinstate disturbed road pavement, including demolition1,504 sq. m7.1 and disposal of additional material to provide good jointing1,504 sq. m9 Traffic Management\$ 194,9739 Traffic Management\$ 194,973Control of traffic during works (nominal allowance)\$ 406,1959.1 (assumed \$500 per lin.m)752 lin. m500\$ 406,195CONSTRUCTION SUBTOTAL\$ \$ 4,554,57411.1 Contingencies\$ \$ 2,277,287		Install new drainage/junction pit (assumed 1 pit per 5m of	150			
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Reinstate disturbed road pavement, including demolition and disposal of additional material to provide good jointing1,504 sq. m130194,973SUBTOTALSUBTOTAL\$ 194,9739Traffic Management\$ 194,973Control of traffic during works (nominal allowance) (assumed \$500 per lin.m)752 lin. m540406,1959.1(assumed \$500 per lin.m)752 lin. m540406,195SUBTOTAL\$ 406,195\$ 406,195\$ 406,195CONSTRUCTION SUBTOTAL\$ \$ 406,195\$ \$ 406,19511.1Contingencies\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						
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SUBTOTALImage: Subtrol of traffic ManagementImage: Subtrol of traffic during works (nominal allowance)9.1Control of traffic during works (nominal allowance)752 lin. m5409.1(assumed \$500 per lin.m)752 lin. m540406,195SUBTOTALSUBTOTAL\$406,195CONSTRUCTION SUBTOTAL\$\$406,19511Contingencies\$\$4,554,57411S0% construction cost\$\$\$CONSTRUCTION TOTAL, exc. GST\$\$6,831,861GST\$\$\$6,831,861CONSTRUCTION TOTAL, inc. GST\$\$7,515,007CONSTRUCTION TOTAL, rounded\$\$7,515,000	7.1	and disposal of additional material to provide good jointing	1,504	sq. m	130	194,973
9Traffic ManagementImage: Control of traffic during works (nominal allowance)9.1(assumed \$500 per lin.m)752 lin. m540406,195SUBTOTALSUBTOTAL\$ 406,195\$ 406,195Image: CONSTRUCTION SUBTOTALImage: Subtrok Subtr		SUBTOTAL				\$ 194,973
Control of traffic during works (nominal allowance)752In. m540406,1959.1 (assumed \$500 per lin.m)752Iin. m540406,195SUBTOTAL\$406,195CONSTRUCTION SUBTOTAL\$406,195CONSTRUCTION SUBTOTAL\$4,554,57411 Contingencies\$\$11.1 50% construction cost\$\$2,277,287CONSTRUCTION TOTAL, exc. GST\$6,831,861GST\$\$6,831,861CONSTRUCTION TOTAL, inc. GST\$\$7,515,047CONSTRUCTION TOTAL, rounded\$7,515,000	9	Traffic Management				
9.1 (assumed \$500 per lin.m) 752 lin. m 540 406,195 SUBTOTAL \$ 406,195 CONSTRUCTION SUBTOTAL \$ 4,554,574 11 Contingencies \$ 4,554,574 11 Contingencies \$ 4,554,574 11.1 50% construction cost \$ 2,277,287 CONSTRUCTION TOTAL, exc. GST \$ 6,831,861 GST \$ 683,186 CONSTRUCTION TOTAL, inc. GST \$ 7,515,047 CONSTRUCTION TOTAL, rounded \$ 7,515,000		Control of traffic during works (nominal allowance)				
SUBTOTAL \$ 406,195 CONSTRUCTION SUBTOTAL \$ 4,554,574 11 Contingencies \$ 4,554,574 11 S0% construction cost \$ 2,277,287 CONSTRUCTION TOTAL, exc. GST \$ 6,831,861 GST \$ 6,831,861 CONSTRUCTION TOTAL, inc. GST \$ 7,515,047 CONSTRUCTION TOTAL, rounded \$ 7,515,000	9.1	(assumed \$500 per lin.m)	752	lin. m	540	406,195
CONSTRUCTION SUBTOTAL\$ 4,554,57411 Contingencies\$ 4,554,57411 Contingencies\$ 2,277,28711.1 50% construction cost\$ 2,277,287CONSTRUCTION TOTAL, exc. GST\$ 6,831,861GST\$ 6,831,861CONSTRUCTION TOTAL, inc. GST\$ 683,186CONSTRUCTION TOTAL, inc. GST\$ 7,515,047CONSTRUCTION TOTAL, rounded\$ 7,515,000		SUBTOTAL				\$ 406,195
CONSTRUCTION SUBTOTAL\$ 4,554,57411 Contingencies\$ -11.1 50% construction cost\$ 2,277,287CONSTRUCTION TOTAL, exc. GST\$ 6,831,861GST\$ 6,831,861CONSTRUCTION TOTAL, inc. GST\$ 683,186CONSTRUCTION TOTAL, rounded\$ 7,515,047CONSTRUCTION TOTAL, rounded\$ 7,515,000						
11 Contingencies\$11.1 50% construction cost\$2000 CONSTRUCTION TOTAL, exc. GST\$CONSTRUCTION TOTAL, exc. GST\$GST\$CONSTRUCTION TOTAL, inc. GST\$CONSTRUCTION TOTAL, rounded\$7,515,000		CONSTRUCTION SUBTOTAL				\$ 4,554,574
11.1 50% construction cost \$ 2,277,287 CONSTRUCTION TOTAL, exc. GST \$ 6,831,861 GST \$ 6,831,861 CONSTRUCTION TOTAL, inc. GST \$ 683,186 CONSTRUCTION TOTAL, inc. GST \$ 7,515,047 CONSTRUCTION TOTAL, rounded \$ 7,515,000	11	Contingencies				\$-
CONSTRUCTION TOTAL, exc. GST\$ 6,831,861GST\$ 683,186CONSTRUCTION TOTAL, inc. GST\$ 7,515,047CONSTRUCTION TOTAL, rounded\$ 7,515,000	11.1	50% construction cost				\$ 2,277,287
CONSTRUCTION TOTAL, exc. GST \$ 6,831,861 GST \$ 683,186 CONSTRUCTION TOTAL, inc. GST \$ 7,515,047 CONSTRUCTION TOTAL, rounded \$ 7,515,000						
GST \$ 683,186 CONSTRUCTION TOTAL, inc. GST \$ 7,515,047 CONSTRUCTION TOTAL, rounded \$ 7,515,000		CONSTRUCTION TOTAL, exc. GST				\$ 6,831,861
CONSTRUCTION TOTAL, inc. GST\$ 7,515,047CONSTRUCTION TOTAL, rounded\$ 7,515,000		GST				\$ 683,186
CONSTRUCTION TOTAL, rounded \$ 7,515,000		CONSTRUCTION TOTAL, inc. GST				\$ 7,515,047
		CONSTRUCTION TOTAL, rounded				\$ 7,515,000

11	MAINTENANCE			
11.1	Maintenance of mitigation option	item	\$	7,522

Table C2:	Cost Estimate - Option FM-RB02 - Boundary Street to Weigall	Sportsgrou	Ind Pip	e Upgrade		
Item No.	Description of Work	Quantity	Unit	Rate	RB02	
1	General Construction Costs					
	Site establishment, security fencing, facilities and					
1.1	disestablishment	1	item	0		0
1.2	Provision of sediment and erosion control	1	item	0		0
1.3	Construction setout and survey	1	item	0		0
1.4	Work as executed survey and documentation	1	item	0		0
1.5	Geotechnical supervision, testing and certification	1	item	0		0
	SUBTOTAL (Assumed as 15% of works cost)				\$	440 958
2	Demolition and Clearing				Ψ	440,330
21	Clearing and grubbing	0	sa m	11		0
2.1	Strin tonsoil and stocknile for re-use (assuming 150mm	0	3 q . m			0
22	denth)	0	cu m	27		٥
2.2	Dispose of excess topsoil (nominal 10% allowance)	0		65		0
2.0	Pull up and dispose existing road surface	1 067	sa m	38		40 349
	SUBTOTAL	1,007	0q. m		\$	40.349
4	Installation of Drainage				Ŧ	10,010
	Supply excavate bed lay joint backfill and provide					
4 1	connections 0.45m dia Pine	17	lin m	999		16 683
	Supply, excavate, bed, lay, joint, backfill and provide	17		000		10,000
44	connections twin 0 9m dia Pine	13	lin m	1 728		21 766
	Supply, excavate, bed, lay, joint, backfill and provide	10		1,720		21,700
4.5	connections 1.2m dia. Pipe	176	lin, m	1,782		313,263
	Supply, excavate, bed, lay, joint, backfill and provide			.,		0.0,200
4.6	connections 1.5m dia. Pipe	40	lin, m	2,430		98.026
	Supply, excavate, bed, lay, joint, backfill and provide					00,020
4.8	connections 1.8m dia. Pipe	12	lin. m	3.564		43.753
	Supply, excavate, bed, lay, joint, backfill and provide			0,001		.0,.00
4.21	connections 1.5m x 0.6m culvert	59	lin. m	2,700		158,154
	Supply, excavate, bed, lay, joint, backfill and provide			,		,
4.23	connections 1.5m x 1.5m culvert	19	lin. m	3,024		58,088
	Supply, excavate, bed, lay, joint, backfill and provide					
4.24	connections 1.8m x 1.2m culvert	198	lin. m	3,456		685,086
	Install new drainage/junction pit (assumed 1 pit per 5m of					
4.49	pipe)	107	each	4,320		462,240
	Adjustment of existing services (nominal allowance)					
4.51	(assumed 30% of drainage installation cost)					819,935
	SUBTOTAL				\$ 2	2,472,821
7	Footpath and Road Surfaces					
	Reinstate disturbed road pavement, including demolition					
7.1	and disposal of additional material to provide good jointing	1,067	sq. m	130		138,340
	SUBIOTAL				\$	138,340
9	Traffic Management					
	Control of traffic during works (nominal allowance)					
9.1	(assumed \$500 per lin.m)	534	lin. m	540	-	288,209
	SUBTOTAL				\$	288,209
	CONSTRUCTION SUBTOTAL				\$ 3	3,380,677
11	Contingencies				\$	-
11.1	50% construction cost				\$	1,690,339
	CONSTRUCTION TOTAL, exc. GST				\$ <u>{</u>	5,071,016
					\$	507,102
	CONSTRUCTION TOTAL, INC. GST				\$	0,5/8,117
	CONSTRUCTION TOTAL, rounded				\$	o,578,100

11	MAINTENANCE			
11.1	Maintenance of mitigation option	item	\$	5,337

Table C3:	ole C3: Cost Estimate - Option FM-RB03 - Taylor, Sims and Sturt Street Pipe Upgrade						
Item No.	Description of Work	Quantity	Unit	Rate	RB0	3	
1	General Construction Costs	-					
	Site establishment, security fencing, facilities and						
1.1	disestablishment	1	item	0		0	
1.2	Provision of sediment and erosion control	1	item	0		0	
1.3	Construction setout and survey	1	item	0		0	
1.4	Work as executed survey and documentation	1	item	0		0	
1.5	Geotechnical supervision, testing and certification	1	item	0		0	
	SUBTOTAL (Assumed as 15% of works cost)				\$	451,525	
2	Demolition and Clearing				,	,	
2.1	Clearing and grubbing	0	sa. m	11		٥	
	Strip topsoil and stockpile for re-use (assuming 150mm			· · ·			
2.2	depth)	0	cu. m	27		٥	
2.3	Dispose of excess topsoil (nominal 10% allowance)	0	cu. m	65		0	
2.4	Pull up and dispose existing road surface	1 435	sa. m	38		54 243	
	SUBTOTAL	.,			\$	54.243	
Л	Installation of Drainage				*	J.,2.10	
+ 4	Supply excavate bed lay joint backfill and provide						
л 1	connections 0.45m dia Dina	17	lin m	000		17 /05	
4.1	Supply excavate hed lay joint hackfill and provide	17		599		17,423	
4.0	connections 0 fm dia Dina	170	lin m	1 050		100 606	
4.2	Supply excepte had lay joint backfill and provide	172		1,053		100,000	
	oonnootione twin 0 0m die. Dine	057	lin m	1 700		110 010	
4.4	cumections twin u.s.in and ripe Supply avaavata had lay jaint haakfill and reavida	257	iiri. M	1,728		443,649	
A -	Suppry, excavate, bed, lay, joint, backfill and provide	101	lin	1 700		000 000	
4.5	connections 1.2m dia. Pipe Supply execute had lay joint healfill and provide	164	iiri. M	1,782		292,233	
	Suppry, excavate, bed, lay, joint, backfill and provide		1	0.700		05 700	
4.21	connections 1.5m x 0.6m cuivert	10	ıın. m	2,700		25,790	
	Supply, excavate, bed, lay, joint, backfill and provide		1	0.450		000 505	
4.24	connections 1.8m x 1.2m cuivert	98	lin. m	3,456		339,585	
	Install new drainage/junction pit (assumed 1 pit per 5m of		,				
4.49	ріре)	144	each	4,320		622,080	
	Adjustment of eviating associate (neuring) all successes)						
	Aujustiment of existing services (nominal allowance)						
4.51	(assumed 20% of drainage installation cost)				^	5/1,/99	
					\$	2,382,497	
7	Footpath and Road Surfaces						
	Defected a distant of the second s						
	Reinstate disturbed road pavement, including demolition	_					
7.1	and disposal of additional material to provide good jointing	1,435	sq. m	130		185,977	
	SUBTOTAL				\$	185,977	
9	Traffic Management						
	Control of traffic during works (nominal allowance)						
9.1	(assumed \$500 per lin.m)	718	lin. m	540		387,451	
	SUBIOTAL				\$	387,451	
	CONSTRUCTION SUBTOTAL				\$	3,461,693	
11	Contingencies				\$	-	
11.1	50% construction cost				\$	1,730,847	
	CONSTRUCTION TOTAL, exc. GST				\$	5,192,540	
	GST				\$	519,254	
	CONSTRUCTION TOTAL, inc. GST				\$	5,711,794	
	CONSTRUCTION TOTAL, rounded				\$	5,711,800	
	,					, ,	
11	MAINTENANCE						
11.1	Maintenance of mitigation option		item		\$	7.175	
	·····				ŕ	-,	
				1	1		

Table C4:	Table C4: Cost Estimate - Option FM-RB04 - Taylor to Boundary Street Pipe Upgrade						
Item No.	Description of Work	Quantity	Unit	Rate	RBC)4	
1	General Construction Costs						
	Site establishment, security fencing, facilities						
1.1	and disestablishment	1	item	0		0	
1.2	Provision of sediment and erosion control	1	item	0		0	
1.3	Work as executed survey and documentation	1	itom	0		0	
1.4	certification	1	item	0		0	
1.0	SUBTOTAL (Assumed as 15% of works cost)		nom	Ŭ	¢	1 263 868	
2	Demolition and Clearing				Ψ	1,203,000	
2.1	Clearing and grubbing	0	sa. m	11		0	
	Strin tonsoil and stocknile for re-use (assuming		e q				
22	150mm depth)	0	cu m	27		0	
	Dispose of excess topsoil (nominal 10%		00.111	2,		•	
2.3	allowance)	0	cu. m	65		0	
2.4	Pull up and dispose existing road surface	3,414	sq. m	38		129,035	
	SUBTOTAL				\$	129.035	
4	Installation of Drainage				Ŧ		
	Supply, excavate, bed, lay, joint, backfill and						
4.1	provide connections 0.45m dia. Pipe	34	lin m	999		34 128	
	Supply excepte bed lay joint backfill and					01,120	
42	provide connections 0 6m dia Pine	187	lin m	1 053		196 776	
	Supply execute had law joint heal/fill and	107		1,000		100,770	
	Supply, excavale, bed, lay, joint, backing and provide connections twin 0.9m dia. Pine	242	lin m	1 700		500 554	
4.4	Cumply execute had law joint heakfill and	343		1,720		092,004	
4 5	Supply, excavate, bed, lay, joint, backfill and	004	lin m	1 700			
4.5		204	III. III	1,702		505,261	
4.0	Supply, excavate, bed, lay, joint, backfill and	400	Ľ., .,,	0.400		1 00 4 1 5 0	
4.0		426	iin. m	2,430		1,034,158	
	Supply, excavate, bed, lay, joint, backfill and	50		0.504		177.001	
4.8	provide connections 1.8m dia. Pipe	50	lin. m	3,564		177,931	
	Supply, excavate, bed, lay, joint, backfill and						
4.21	provide connections 1.5m x 0.6m culvert	166	lin. m	2,700		449,244	
	Supply excavate bed lay joint backfill and						
4.23	provide connections 1.5m x 1.5m culvert	19	lin. m	3.024		58.088	
	Supply excavate bed lay joint backfill and			-,		,	
4.24	provide connections 1.8m x 1.2m culvert	198	lin m	3 456		685 086	
	Install new drainage/junction nit (assumed 1 nit			0,100		000,000	
4 49	per 5m of pipe)	341	each	4 320		1 473 120	
	Adjustment of existing services (nominal	041	Cuon	4,020		1,470,120	
	allowance) (assumed 30% of drainage installation						
4.51	cost)					2.298.725	
	SUBTOTAL				\$	6.932.663	
7	Footpath and Road Surfaces				-	-,,-,-,-	
-	-				-		
	Reinstate disturbed road pavement, including						
	demolition and disposal of additional material to						
7.1	provide good jointing	3,414	sq. m	130		442,406	
	SUBTOTAL				\$	442,406	
9	Traffic Management						

9.1	allowance) (assumed \$500 per lin.m)	1,707	lin. m	540	921,680
	SUBTOTAL				\$ 921,680
	CONSTRUCTION SUBTOTAL				\$ 9,689,652
11	Contingencies				\$ -
11.1	50% construction cost				\$ 4,844,826
	CONSTRUCTION TOTAL, exc. GST				\$ 14,534,478
	GST				\$ 1,453,448
	CONSTRUCTION TOTAL, inc. GST				\$ 15,987,926
	CONSTRUCTION TOTAL, rounded				\$ 15,987,900
11	MAINTENANCE				
11.1	Maintenance of mitigation option		item		\$ 17,068

Table C5:	Cost Estimate - Option FM-RB05 - Victoria Street Pipe	Upgrade				
Item No.	Description of Work	Quantity	Unit	Rate	RB	05
1	General Construction Costs					
	Site establishment, security fencing, facilities and					
1.1	disestablishment	1	item	0		0
1.2	Provision of sediment and erosion control	1	item	0		0
1.3	Construction setout and survey	1	item	0		0
1.4	Work as executed survey and documentation	1	item	0		0
1.5	Geotechnical supervision, testing and certification	1	item	0		0
	SUBTOTAL (Assumed as 15% of works cost)				\$	93,139
2	Demolition and Clearing					
2.1	Clearing and grubbing	0	sq. m	11		0
	Strip topsoil and stockpile for re-use (assuming					
2.2	150mm depth)	0	cu. m	27		0
2.3	Dispose of excess topsoil (nominal 10% allowance)	0	cu. m	65		0
2.4	Pull up and dispose existing road surface	342	sq. m	38		12,928
	SUBTOTAL				\$	12,928
4	Installation of Drainage					
	Supply, excavate, bed, lay, joint, backfill and provide					
4.6	connections 1.5m dia. Pipe	171	lin. m	2,430		415,530
	Install new drainage/junction pit (assumed 1 pit per					
4.49	50m of pipe)	3	each	4,320		12,960
	Adjustment of existing services (nominal allowance)					
4.51	(assumed 10% of drainage installation cost)					47,134
	SUBTOTAL				\$	471,339
7	Footpath and Road Surfaces					,
	Reinstate disturbed road pavement, including					
	demolition and disposal of additional material to					
7.1	provide good jointing	342	sq. m	130		44,323
	SUBTOTAL				\$	44,323
9	Traffic Management					
	Control of traffic during works (nominal allowance)					
9.1	(assumed \$500 per lin.m)	171	lin. m	540		92,340
	SUBTOTAL				\$	92,340
	CONSTRUCTION SUBTOTAL				\$	714,069
11	Contingencies				\$	-
11.1	50% construction cost				\$	357,035
	CONSTRUCTION TOTAL, exc. GST				\$	1,071,104
					\$	107,110
					\$	1,1/8,214
	CONSTRUCTION TOTAL, rounded				\$	1,178,200
	ΜΔΙΝΤΕΝΔΝΟΕ					
11 1	Maintenance of mitigation option		itom		¢	11 710
					φ	11,710





Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Total Damages for Event		Ave. Damage Per Flood Affected Property
PMF	138	87	\$	4,751,800	\$ 34,400
1%	100	24	\$	1,418,900	\$ 14,200
2%	92	23	\$	1,344,300	\$ 14,600
5%	90	20	\$	1,165,700	\$ 13,000
10%	81	10	\$	784,400	\$ 9,700
20%	79	5	\$	565,900	\$ 7,200
50%	65	3	\$	342,500	\$ 5,300
	Average Ani	nual Damages (AAD)	\$	420,500	\$ 3,000

Table D1: Residential Tangible Damages - Option FM - RB01

Table D2: Commercial Tangible Damages - Option FM - RB01

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Total Damages for Event		Ave. I Afi	Damage Per Flood fected Property
PMF	61	42	\$	6,941,900	\$	113,800
1%	42	21	\$	3,374,100	\$	80,300
2%	39	20	\$	3,088,700	\$	79,200
5%	36	17	\$	2,636,000	\$	73,200
10%	26	10	\$	1,538,600	\$	59,200
20%	22	5	\$	844,600	\$	38,400
50%	17	3	\$	538,600	\$	31,700
	Average An	nual Damages (AAD)	\$	735,400	\$	12,100

Table D3: Combined Tangible Damages - Option FM - RB01

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Тс	otal Damages for Event	Ave. Damage Per Flood Affected Property
PMF	199	129	\$	11,693,700	\$ 58,800
1%	142	45	\$	4,793,000	\$ 33,800
2%	131	43	\$	4,433,100	\$ 33,800
5%	126	37	\$	3,801,700	\$ 30,200
10%	107	20	\$	2,323,000	\$ 21,700
20%	101	10	\$	1,410,600	\$ 14,000
50%	82	6	\$	881,100	\$ 10,700
	Average Ani	nual Damages (AAD)	\$	1,155,800	\$ 5,800

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Total Damages for Event		Ave. Damage Per Flood Affected Property
PMF	138	87	\$	4,802,100	\$ 34,800
1%	99	25	\$	1,474,000	\$ 14,900
2%	94	23	\$	1,347,100	\$ 14,300
5%	89	18	\$	1,167,200	\$ 13,100
10%	82	10	\$	786,500	\$ 9,600
20%	80	5	\$	565,800	\$ 7,100
50%	65	3	\$	335,100	\$ 5,200
	Average Ani	nual Damages (AAD)	\$	418,500	\$ 3,000

Table D1: Residential Tangible Damages - Option FM -RB02

Table D2: Commercial Tangible Damages - Option FM -RB02

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Total Damages for Event		Ave. Af	Damage Per Flood fected Property
PMF	61	42	\$	6,950,300	\$	113,900
1%	41	21	\$	3,381,400	\$	82,500
2%	39	20	\$	3,110,500	\$	79,800
5%	36	17	\$	2,638,600	\$	73,300
10%	27	9	\$	1,425,000	\$	52,800
20%	23	6	\$	976,100	\$	42,400
50%	16	3	\$ 520,700		\$	32,500
	Average An	nual Damages (AAD)	\$	746,700	\$	12,200

Table D3: Combined Tangible Damages - Option FM -RB02

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Total Damages for Event		Ave. Damage Per Flood Affected Property
PMF	199	129	\$	11,752,400	\$ 59,100
1%	140	46	\$	4,855,400	\$ 34,700
2%	133	43	\$	4,457,600	\$ 33,500
5%	125	35	\$	3,805,800	\$ 30,400
10%	109	19	\$	2,211,400	\$ 20,300
20%	103	11	\$	1,541,900	\$ 15,000
50%	81	6	\$	855,800	\$ 10,600
	Average Ani	nual Damages (AAD)	\$	1,165,200	\$ 5,900

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Total Damages for Event		Ave. Af	Damage Per Flood fected Property
PMF	130	76	\$	4,287,700	\$	33,000
1%	72	12	\$	778,000	\$	10,800
2%	69	9	\$	632,800	\$	9,200
5%	65	9	\$	612,300	\$	9,400
10%	62	7	\$	495,900	\$	8,000
20%	58	5	\$	362,700	\$	6,300
50%	54	5	\$	319,300	\$	5,900
	Average Ani	nual Damages (AAD)	\$	303,800	\$	2,300

Table D1: Residential Tangible Damages - Option FM - RB03

Table D2: Commercial Tangible Damages - Option FM - RB03

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Tot	al Damages for Event	Ave. [Aff	Damage Per Flood ected Property
PMF	62	39	\$	6,598,400	\$	106,400
1%	37	23	\$	3,672,300	\$	99,300
2%	34	20	\$	3,213,700	\$	94,500
5%	33	17	\$	2,774,800	\$	84,100
10%	28	13	\$	2,181,700	\$	77,900
20%	27	12	\$	1,954,300	\$	72,400
50%	23	11	\$	1,739,700	\$	75,600
	Average An	nual Damages (AAD)	\$	1,495,300	\$	24,100

Table D3: Combined Tangible Damages - Option FM - RB03

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Тс	otal Damages for Event	Ave. Damage Per Flood Affected Property
PMF	192	115	\$	10,886,100	\$ 56,700
1%	109	35	\$	4,450,200	\$ 40,800
2%	103	29	\$	3,846,500	\$ 37,300
5%	98	26	\$	3,387,100	\$ 34,600
10%	90	20	\$	2,677,600	\$ 29,800
20%	85	17	\$	2,317,000	\$ 27,300
50%	77	16	\$	2,059,000	\$ 26,700
	Average Ani	nual Damages (AAD)	\$	1,799,100	\$ 9,400

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Τα	otal Damages for Event	Ave. A	Damage Per Flood ffected Property
PMF	128	75	\$	4,210,900	\$	32,900
1%	71	10	\$	657,200	\$	9,300
2%	67	10	\$	636,500	\$	9,500
5%	65	5	\$	491,100	\$	7,600
10%	60	3	\$	372,000	\$	6,200
20%	57	2	\$	284,100	\$	5,000
50%	50	2	\$	229,400	\$	4,600
	Average Ani	nual Damages (AAD)	\$	236,500	\$	1,800

Table D1: Residential Tangible Damages - Option FM - RB04

Table D2: Commercial Tangible Damages - Option FM - RB04

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Tot	tal Damages for Event	Ave. Damage Per Flood Affected Property			
PMF	61	39	\$	6,504,600	\$	106,600		
1%	32	19	\$	3,011,200	\$	94,100		
2%	31	18	\$	2,774,200	\$	89,500		
5%	28	15	\$	2,313,200	\$	82,600		
10%	22	9	\$	1,409,500	\$	64,100		
20%	22	6	\$	973,300	\$	44,200		
50%	16	4	\$	655,100	\$	40,900		
	Average An	nual Damages (AAD)	\$	773,000	\$	12,700		

Table D3: Combined Tangible Damages - Option FM - RB04

Event	No. Properties Affected (Flooded below floor)	No. Properties Flooded Above Floor Level	Тс	otal Damages for Event	Ave. Damage Per Flood Affected Property
PMF	189	114	\$	10,715,500	\$ 56,700
1%	103	29	\$	3,668,300	\$ 35,600
2%	98	28	\$	3,410,600	\$ 34,800
5%	93	20	\$	2,804,300	\$ 30,200
10%	82	12	\$	1,781,600	\$ 21,700
20%	79	8	\$	1,257,400	\$ 15,900
50%	66	6	\$	884,500	\$ 13,400
	Average Ani	nual Damages (AAD)	\$	1,009,500	\$ 5,300







Floor Level Survey (undertaken in 2012 as part of Rushcutters Bay Flood Study)

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	e				mm (C), blic (P), tool (S),	e (S,M,L)	<u>/e on</u> : (Y/N)	uction: S	<mark>iction:</mark> Rendere eer (2), ooard (4)	00r=1, =3)	or=1, Ave			ırking Le	ffice Floo	ace Leve	vel (Fror	rom Stre ent to Level)	ure of	
PER	qmn	ame		nber	e: Co), Pul), Sch	s Siz	le liv floor	<mark>nstrı</mark> er (2)	<mark>one,</mark> Ven, Ven,	n: (P	(Poo		bđ	nt Pa	e/O	Surfa <u>/el</u>	rd Le	<mark>vel f</mark> i liffer ⁻ loor	Nati	efere
PRC	et N	et N	d d		d Use last (I id (R) cant	mise	reys	or Pie	I Co k, St Brick o (3)	=2, ∈	den: d=3)	ting	thing	eme	<u>rest</u> itabl el	ural ir Lev	rtyaı	y Le ere c 'est F	ne &	n to ber
Ē	Stre	Stre	Sub	Un:	Lan Indu Res Wao	Prei	Stoi Do grou	Floc (1)	Wal Bric (1) I Fibr Clad	<mark>Con</mark> Ave	Gan Goo	East	Nor	Bas	Low Hab Lev	Nat (Fro Wei	Cou	Entı (wh Low	Nan Bus	Nur Nur
26444	43	Boundary Street	DARLINGHURST NSW 2010	N/A	R	S	2 Y	2	1	L 2	2	335747	6249812	N/A	19.56	18.56 N/A N	/A	N/A	N/A	43 Boundary Street, Darlinghurst.jpg
26441	170	Barcom Avenue	DARLINGHURST NSW 2010	N/A	R	S	2 Y	2	1	L 2	2	335706	6249824	N/A	20.46	21.94 N/A 2	20.3	N/A	N/A	170 Barcom Avenue, Darlinghurst.jpg
26440	168	Barcom Avenue	DARLINGHURST NSW 2010	N/A	R	S	2 Y	2	1	L 2	2	335711	6249829	N/A	19.96	21.79 N/A 2	20.1	20.26	N/A	168 Barcom Avenue, Darlinghurst.jpg
26439	166	Barcom Avenue	DARLINGHURST NSW 2010	N/A	R	S	2 Y	2	1	L 2	2	335712	6249830	N/A	20.26	21.79 N/A 2	20.1	N/A	N/A	166 Barcom Avenue, Darlinghurst.jpg
26438	164	Barcom Avenue	DARLINGHURST NSW 2010	N/A	R	S	2 Y	2	1	L 2	2	335716	6249835	N/A	20.13	21.62 N/A	20	N/A	N/A	164 Barcom Avenue, Darlinghurst.jpg
26437	162	Barcom Avenue	DARLINGHURST NSW 2010	N/A	R	S	2 Y	2	1	L 2	2	335718	6249837	N/A	20.13	21.62 N/A	20	N/A	N/A	162 Barcom Avenue, Darlinghurst.jpg
30901	18-28	Neild Avenue	DARLINGHURST NSW 2010	N/A	С	S	1 N	1	1	L 3	2	336093	6249854	N/A	7.3	6.38 N/A N	/A	N/A	Advanx - Sales suite	20 Neild Avenue, Darlinghurst.jpg
30177	19A-19B	Boundary Street	DARLINGHURST NSW 2010	Shop 1	С	М	6 N	1	1	L 3	N/A	335832	6249854	N/A	12.18	13.11 N/A N	/A	13.29	Analu Fine Carpets	19A-19B Boundary Street, Darlinghurst - A.jpg
30177	19A-19B	Boundary Street	DARLINGHURST NSW 2010					1	1	L 3	N/A	335813	6249849	12.3	13.63	13.44 14 N	/A	N/A	The Textile Company	19A-19B Boundary Street, Darlinghurst - B.jpg
30666	5-11	Boundary Street	DARLINGHURST NSW 2010	N/A	R/C	L	4 N	1	1	L 3	N/A	336012	6249873	4.74	7.74	7.7 7.7 N	/A	N/A	Vacant	5-11 Boundary Street, Darlinghurst - A.jpg
30666	5-11	Boundary Street	DARLINGHURST NSW 2010	N/A	R/C	L	4 N	1	1	L 3	N/A	336060	6249859	N/A	7.14	7.14 N/A N	/A	N/A	Nupos - Software developers	5-11 Boundary Street, Darlinghurst - B.jpg
30666	5-11	Boundary Street	DARLINGHURST NSW 2010	N/A	R/C	L	4 N	1	1	L 3	N/A	336059	6249880	N/A	7.74	N/A N/A N	/A	N/A	Vacant	5-11 Boundary Street, Darlinghurst - C.jpg
4795	84-90	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R/C	М	6 N	1	1	L 3	N/A	335955	6249880	N/A	9.65	9.53 N/A N	/A	N/A	Carlitos Expresso - Café	84-90 McLachlan Avenue, Darlinghurst - A.jpg
4795	84-90	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R/C	М	6 N	1	1	L 3	N/A	335990	6249879	7	9.65	N/A N/A N	/A	N/A	N/A	84-90 McLachlan Avenue, Darlinghurst - B.jpg
30175	15-19	Boundary Street	DARLINGHURST NSW 2010	Shop 1	R/C	L	6 N	1	1	L 3	N/A	335848	6249858	N/A	12.15	12.67 N/A N	/A	12.77	Grafton Galleries Antiques	15-19 Boundary Street, Darlinghurst - A.jpg
30175	15-19	Boundary Street	DARLINGHURST NSW 2010	Shop 8	R/C	L	6 N	1	1	L 3	N/A	335896	6249869	N/A	12.09	11.14 N/A N	/A	N/A	Zepel Fabrics	15-19 Boundary Street, Darlinghurst - B.jpg
4688	80-82	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	С	М	3 N	1	1	L 3	N/A	335989	6249906	N/A	8.76	8.89 8.9 N	/A	N/A	Sandersons - Car dealership	80-82 McLachlan Avenue, Darlinghurst - A.jpg
4688	80-82	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	с	М	3 N	1	1	L 3	N/A	336000	6249877	7.86	N/A	N/A 8.3 N	/A	N/A	Sandersons - Car dealership	80-82 McLachlan Avenue, Darlinghurst - B.jpg
30664	74-76	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R	L	7 N	1	1	L 3	N/A	336051	6249907	8.13	10.8	7.93 N/A N	/A	N/A	N/A	74-76 McLachlan Avenue, Darlinghurst.jpg
2904	87-97	McLachlan Avenue	DARLINGHURST NSW 2010	Not Kn	c R	L	4 Y	1	1	L 3	3	335935	6249895	N/A	10.35	9.94 N/A 1	10.2	N/A	N/A	87-97 McLachlan Avenue, Darlinghurst.jpg
4636	83-85	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	С	М	3 N	1	1	L 3	N/A	335952	6249908	9.84	14.04	9.82 N/A N	/A	N/A	Probuild - Builders	83-85 McLachlan Avenue, Darlinghurst.jpg
1051	66-72	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R/C	М	3 N	1	1	L 3	N/A	336028	6249936	N/A	8.13	8.12 8.2 N	/A	N/A	Arthouse Gallery - Art gallery	66-72 McLachlan Avenue, Darlinghurst - A.jpg
1051	66-72	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R/C	М	3 N	1	1	L 3	N/A	336044	6249925	8.12	N/A	N/A N/A N	/A	N/A	N/A	66-72 McLachlan Avenue, Darlinghurst - B.jpg
4456	77-79	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	С	М	2 N	1	1	L 2	N/A	335964	6249915	N/A	9.43	9.42 N/A N	/A	N/A	Handler - Wholesale butcher	77-79 McLachlan Avenue, Darlinghurst.jpg
30667	62-64	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	С	М	2 N	1	1	L 2	N/A	336040	6249948	N/A	7.91	7.84 N/A N	/A	N/A	Sandersons - Car workshop	62 McLachlan Avenue, Darlinghurst.jpg
3180	73-75	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	I	М	2 N	1	1	L 2	N/A	335981	6249929	N/A	9.12	9.02 N/A N	/A	N/A	Prestige Paint & Panel - Smash repairs	73-75 McLachlan Avenue, Darlinghurst.jpg
4340	71	McLachlan Avenue	DARLINGHURST NSW 2010		Refer to 67	-69 N	IcLachlan /	Avenue												
4580	67-69	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	I	М	1 N	1	1	L 2	N/A	335997	6249942	N/A	8.88	8.74 N/A N	/A	N/A	N V Motors - Car repairs	65A & 67-69 McLachlan Avenue, Darlinghurst
31562	50	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R/C	L	6 N	1	1	L 3	3	336067	6249967	N/A	7.53	7.04 N/A N	/A	N/A	Sydney City Lexus - Car dealership	50 McLachlan Avenue, Darlinghurst.jpg
31562	50	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R/C	L	2 N	1	1	L 3	3	336177	624997.7	N/A	5.97	5.27 N/A N	/A	N/A	Neild Avenue - Restaurant	10 Neild Avenue, Darlinghurst.jpg
31562	50	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R/C	L	6 N	1	1	L 3	3	336159	6249948	N/A	5.91	5.46 N/A N	A/A	N/A	Verve - Art gallery	12 Neild Avenue, Darlinghurst.jpg
31562	50	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R/C	L	6 N	1	1	L 3	3	336131	6249897	4.3	6.32	5.84 6.3 N	A/A	N/A	Name not known - Household furnishir	16 Neild Avenue, Darlinghurst.jpg
4524	65A	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	I	S	1 N	1	1	L 2	N/A	336001	6249945	N/A	8.86	8.7 N/A N	A/A	N/A	Prestige Paint & Panel - Smash repairs	65A & 67-69 McLachlan Avenue, Darlinghurst
4404	61-63	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	R	М	4 N	1	1	L 3	N/A	336014	6249962	8.6	11.6	8.45 N/A N	A/A	N/A	N/A	61-63 McLachlan Avenue, Darlinghurst.jpg
4174	49-59	McLachlan Avenue	DARLINGHURST NSW 2010	N/A	С	L	2 N	1	1	L 3	N/A	336045	6249981	N/A	8.78	7.86 N/A N	A/A	N/A	Sandersons - Car dealership	49-59 McLachlan Avenue, Darlinghurst.jpg
4117	30-62	Barcom Avenue	DARLINGHURST NSW 2010	N/A	С	М	3 N	1	1	L 2	N/A	335997	6250031	N/A	10.1	12.9 13 N	A/A	12.94	Rushcutters Self Storage	30-62 Barcom Avenue, Darlinghurst.jpg
31557	16-32	McLachlan Avenue	DARLINGHURST NSW 2010	16	51	М	2 N	1	1	L 2	N/A	336150	6250058	N/A	5.91	5.8 N/A N	/A	N/A	Vacant	16-32 McLachlan Avenue, Darlinghurst - A.jpg
31557	16-32	McLachlan Avenue	DARLINGHURST NSW 2010	18		М	2 N	1	1	L 2	N/A	336142	6250045	N/A	5.76	5.74 N/A N	/A	N/A	Vacant	16-32 McLachlan Avenue, Darlinghurst - B.jpg
31557	16-32	McLachlan Avenue	DARLINGHURST NSW 2010	20		М	2 N	1	1	L 2	N/A	336136	6250034	N/A	5.82	5.77 N/A N	/A	N/A	Vacant	16-32 McLachlan Avenue, Darlinghurst - C.jpg
31557	16-32	McLachlan Avenue	DARLINGHURST NSW 2010	22	1	М	2 N	1	1	L 2	N/A	336128	6250021	N/A	5.92	5.81 N/A N	/A	N/A	Vacant	16-32 McLachlan Avenue, Darlinghurst - D.jpg
3808	6	Neild Avenue	DARLINGHURST NSW 2010	N/A	1	S	2 N	1	1	L 1	N/A	336210	6250036	N/A	5.07	5.02 N/A N	/A	N/A	Vacant	6 Neild Avenue, Darlinghurst.jpg
3141	65	Craigend Street	DARLINGHURST NSW 2010	N/A	С	L	3 N	1	1	L 3	3	336095	6250055	N/A	7.74	6 N/A N	/A	N/A	BMW Sydney - Car dealership	65 Craigend Street, Darlinghurst.jpg
43278	1	Kellett Place	RUSHCUTTERS BAY NSW 2011	l N/A	R	М	4 N	1	1	L 2	N/A	335853	6250334	32.3	35.25	N/A 33 N	/A	N/A	N/A	1 Kellett Place, Rushcutters Bay.jpg

Floor Level Survey (undertaken in 2012 as part of Rushcutters Bay Flood Study)

FID_ PROPER	Street Number	Street Name	Su bu Su	solution for the second s	<u>Land Use:</u> Comm (C), Indust (I), Public (P), Resid (R), School (S), Wacant (V)	Premises Size (S,M,L)	<u>Storeys</u> <u>Do people live on</u> <u>ground floor:</u> (Y/N)	Floor Construction: Slab (1) or Pier (2)	Wall Construction: Brick, Stone, Rendered (1) Brick Veneer (2), Fibro (3), W'board (4), Clad (5)	<u>Condition:</u> (Poor=1, Ave=2, Good=3)	<u>Garden: (</u> Poor=1, Ave=2, Good=3)	Easting	Northing	Basement Parking Level	<u>Lowest</u> Habitable/Office Floor Level	Natural Surface Level (Front)	Weir Level	Courtyard Level (Front)	Entry Level from Street (where different to Lowest Floor Level)	Name & Nature of Business	Photo Reference Number
43280	35	Roslyn Street	RUSHCUTTERS BAY NSW 2011	N/A	R	м	3 Y	2	1	. 2	1	. 335873	6250342	N/A	31.45	30.83	N/A	N/A	N/A	N/A	35 Roslyn Street, Rushcutters Bay - A.jpg
43280	35	Roslyn Street	RUSHCUTTERS BAY NSW 2011	N/A	R	М	3 Y	2	1	. 2	2 1	. 335862	6250334	N/A	31.45	N/A	N/A	N/A	N/A	N/A	35 Roslyn Street, Rushcutters Bay - B.jpg
43281	33	Roslyn Street	RUSHCUTTERS BAY NSW 2011	N/A	R	М	2 Y	2	1	. 2	2 2	335868	6250353	N/A	32.69	32.42	N/A	N/A	N/A	N/A	33 Roslyn Street, Rushcutters Bay - A.jpg
43281	33	Roslyn Street	RUSHCUTTERS BAY NSW 2011	N/A	R	М	2 Y	2	1	. 2	2 2	335859	6250338	N/A	32.69	N/A	N/A	N/A	N/A	N/A	33 Roslyn Street, Rushcutters Bay - B.jpg
2584	44	Roslyn Gardens	RUSHCUTTERS BAY NSW 2011	N/A	С	S	4 N	2	1	. 2	2 2	336067	6250403	N/A	3.53	9.94	10	7	7.2	Michael Reid - Art Gallery	44 Roslyn Gardens, Rushcutters Bay.jpg
2571	42	Roslyn Gardens	RUSHCUTTERS BAY NSW 2011	N/A	R	S	4 Y	2	1	. 3	2	336069	6250408	N/A	3.53	9.69	9.9	6.95	7.2	N/A	42 Roslyn Gardens, Rushcutters Bay.jpg
2559	40	Roslyn Gardens	RUSHCUTTERS BAY NSW 2011	N/A	R	S	4 Y	2	1	. 2	2 2	336071	6250415	N/A	3.53	9.69	9.9	6.9	7.2	N/A	40 Roslyn Gardens, Rushcutters Bay.jpg

Floor Level Survey (undertaken in 2014 as part of Rushcutters Bay Floodplain Risk Management Study)

										RESIDENTIAL BUILDINGS					NON RESIDENTIAL BUILDINGS						
Parcel Tag as on Council	<u>Photo name</u>	<u>Total number</u> of buildings	<u>Comment</u>	<u>Street</u> <u>Number</u>	<u>Street</u> <u>Name</u>	<u>Sub-Area</u>	Easting (m)	Northing (m)	Indicative Ground Level	Lowest Habitable Floor Level	<u>Number</u> of Storeys	Do people live on the <u>Ground</u>	House Size - Small (S), Medium	<u>Floor</u> <u>Construction</u> <u>Pier (P) or</u>	Wall Construction Brick stone or rendered (B), Clad	<u>Type</u> (commercial <u>= C,</u>	<u>Name and</u> <u>Nature of</u> <u>Use/Business eg.</u>	Lowest Floor Level (mAHD)	Approximate Floor Area (m2)	Floor Construction Pier (P) or	Wall Construction Brick stone or rendered (B), Clad
(LIC TAG)									<u>(MAHD)</u>	<u>(mahd)</u>		<u>Floor (Y or</u> N)	(IVI), Large (L)	- describe	(C) , Mixed (M)	$\frac{\text{Industrial} = 1,}{\text{public} = P}$	toilet block			- describe	(C) , Mixed (M)
176177	Chisolm street	1		14	Chisolm	Darlinghurst	335185.955	6249473.805	49.61	49.92	2	Y	S	S	В						
176179	/14.JPG Chisolm street	1		18	street Chisolm	Darlinghurst	335189.603	6249454.754	49.80	50.19	2	Y	S	S	В						
176190	/18,20.JPG	1		20	street	Darlinghurst	225199 646	6240452 171	40.90	40.09	2	v	s	s	D						
170180	/18,20.JPG	1		20	street	Darningriurst	555168.040	0249433.171	49.00	49.90	2	T	5	5	D						
176181	Chisolm street/22,24.JPG	1		22	Chisolm street	Darlinghurst	335189.674	6249446.684	49.89	50.11	2	Y	S	S	В						
176182	Chisolm street/22 24 IPG	1		24	Chisolm street	Darlinghurst	335189.897	6249445.376	49.89	50.02	2	Y	S	S	В						
176184	Chisolm	1		28	Chisolm	Darlinghurst	335191.872	6249434.1	50.13	50.376	2	Y	S	S	В						
176185	Chisolm street	1		30	Chisolm	Darlinghurst	335193.722	6249430.833	50.13	50.38	2	Y	S	S	В						
176186	/30.JPG Chisolm street	1		32	street Chisolm	Darlinghurst	335194.636	6249424.828	50.24	50.33	2	Y	S	S	В						
176187	/32.JPG Chisolm street	1		3/1	street Chisolm	Darlinghurst	335194.026	62/19/21 053	50.34	50 444	2	v	s	s	B						
1/010/	/34.JPG	-		JŦ	street	Darmgruist	555154.020	0249421.035	50.54	50.444	2	'	5	5	5						
176188	Chisolm street/36.JPG	1		36	Chisolm street	Darlinghurst	335194.995	6249414.800	50.44	50.619	2	Y	S	S	В						
184564	Taylor Street/36.JPG	1		36	Taylor Street	Darlinghurst	335205.660	6249509.996	48.81	48.179	2	Y	S	S	В						
183954	South Dowling	1		351	South	Darlinghurst	335257.908	6249424.111	49.61	50.082	2	Y	S	S	В						
183956	South Dowling	1		353	South	Darlinghurst	335256.749	6249417.005	49.84	50.025	2	Y	S	S	В						
183958	Street/353.JPG South Dowling	1		355	Dowling South	Darlinghurst	335257.558	6249415.126	49.93	50.137	2	Y	S	S	В						
184389	Street/355.JPG Sturt	1		11	Dowling Sturt	Darlinghurst	335186.408	6249547.280	46.61	46.906	2	Y	S	S	В						
523422	Street/11.JPG Oxford	1		160	Street Oxford	Darlinghurst	335264,508	6249583.029	46.53			N	S			Р	School of	47.422	2634	s	C
522465	street/160.JPG	1		220	street	Darlinghurst	225200.256	6240574 224	46.92		2	N		ç	P	6	Medicine	47.104	159		6
525405	street/229.JPG	1		229	street	Darninghurst	333209.330	0249574.224	40.05		2	IN	3	3	Б	C C		47.104	158	5	C C
532288	Victoria Street/303(2).JPG	1		303	Victoria Street	Darlinghurst	335266.550	6249623.333	43.83		3	N	S			Р	St Vincent's Healthcare	44.643	6127	S	С
532442	Victoria Street/438.JPG	1		438	Victoria Street	Darlinghurst	335328.365	6249601.263	43.75		7	N	L	S	М	Р	St Vincent's Healthcare	45.028	2768	S	В
532288	Victoria	1	Exit Gate	303	Victoria	Darlinghurst	335303.445	6249618.393	43.86			N	L	S	М	Р	St Vincent's	45.390			
532435	Victoria	1		406	Victoria	Darlinghurst	335363.509	6249645.702	45.01		7	N	S	S	М	Р	St Vincent's	41.020	6022	S	М
525010	Street/406.JPG Boundary	1		49	Street Boundary	Darlinghurst	335659.586	6249724.094	23.90	24.228	2	Y	S	S	М		Healthcare				
525011	Street/49.JPG Boundary	1		51	Street Boundarv	Darlinghurst	335653.846	6249713.496	24.20	24.533	2	Y	S	S	В						
525012	Street/51.JPG	1		52	Street	Darlinghurst	335648 022	62/07/02 90/	21.62	25 002	2	v	c	c	ρ						
323012	Street/53.JPG				Street		333046.032	0249703.094	24.03	25.085	<u> </u>	Ť	3	3	D						
525014	Boundary Street/55.JPG	1		55	Boundary Street	Darlinghurst	335648.032	6249703.894	24.63	25.083	2	Y	S	S	В						
529060	Leichhardt Street/1-7.JPG	1		1-7	Leichhard t Street	Darlinghurst	335584.164	6249683.703	27.62	27.685	2	Y	S	S	В	Р	ST VINCENTS HOSPITAL		695		
529079	Leichhardt	1		26	Leichhard	Darlinghurst	335613.801	6249670.000	26.51	26.742	2	Y	S	S	В						
529065	Leichhardt	1		9	Leichhard	Darlinghurst	335587.867	6249675.311	27.25	27.678	2	Y	S	S	В						
	Street/9.JPG				t Street															l	

Floor Level Survey (undertaken in 2014 as part of Rushcutters Bay Floodplain Risk Management Study)

									RESIDENTIAL BUILDINGS								
Parcel Tag as on Council cadastre	<u>Photo name</u>	Total number of buildings	<u>Comment</u>	<u>Street</u> <u>Number</u>	<u>Street</u> <u>Name</u>	<u>Sub-Area</u>	Easting (m)	<u>Northing (m)</u>	Indicative Ground Level (mAHD)	Lowest Habitable Floor Level (mAHD)	Number of Storeys	Do people live on the <u>Ground</u> Floor (Y or	House Size - Small (S), Medium (M), Large	<u>Floor</u> <u>Construction</u> <u>Pier (P) or</u> Slab (S) Other	Wall Construction Brick stone or rendered (B), Clad (C), Mixed (M)	<u>Type</u> (commercial <u>= C,</u> industrial = I, public = P)	Name a Nature Use/Busin Bob's Nur toilot bl
529073	Leichhardt	1		17	Leichhard	Darlinghurst	335596.070	6249661.179	26.89	27.199	2	Y	S	S	В		<u>tonet bi</u>
529075	Leichhardt	1		19	Leichhard	Darlinghurst	335598.088	6249657.661	26.77	27.193	2	Y	S	S	В		
525016	Boundary Street/65-63.JPG	1		63	Boundary	Darlinghurst	335577.382	6249635.298	27.14	27.511	2	Y	S	S	В		1
525017	Boundary Street/65-63.JPG	1		65	Boundary Street	Darlinghurst	335577.382	6249635.298	27.14	27.746	2	Y	S	S	В		
525018	Boundary Street/69-67.JPG	1		67	Boundary Street	Darlinghurst	335570.710	6249629.700	27.41	27.829	2	Y	S	S	В		
525019	Boundary Street/69-67.JPG	1		69	Boundary Street	Darlinghurst	335570.710	6249629.700	27.41	27.825	2	Y	S	S	В		
525021	Boundary Street/71-73.JPG	1		71	Boundary Street	Darlinghurst	335563.965	6249624.125	27.72	28.141	2	Y	S	S	В		
525007	Boundary Street/47.JPG	1		47	Boundary Street	Darlinghurst	335683.737	6249765.691	22.39	23.024	2	Y	S	S	В		
525022	Boundary Street/71-73.JPG	1		73	Boundary Street	Darlinghurst	335563.965	6249624.125	27.72	28.142	2	Y	S	S	В		
525025	Boundary Street/79-77.JPG	1		77	Boundary Street	Darlinghurst	335551.759	6249614.274	28.77	29.083	2	Y	S	S	В		
525024	Boundary Street/75.JPG	1		75	Boundary Street	Darlinghurst	335555.456	6249617.364	28.57	29.012	2	Ŷ	S	S	В		
525026	Boundary Street/79-77.JPG	1		79	Boundary Street	Darlinghurst	335551.759	6249614.274	28.77	29.082	2	Y	S	S	В		
525027	Boundary Street/81-83.JPG	1	ļ	81	Boundary Street	Darlinghurst	335543.708	6249607.549	29.21	29.434	2	Y	S	S	В		
525028	Boundary Street/81-83.JPG	1		83	Boundary Street	Darlinghurst	335543.708	6249607.549	29.21	29.571	2	Y	S	S	В		
525015	Street/61.JPG	1		61	Street	Darlinghurst	335583.970	6249640.726	27.30	27.959	2	Y	S	5	В		
529387	Street/475.JPG	1		475	Street	Darlinghurst	225757 510	6249791.848	21.57	10 011	2	Y	5	S	В		
525002	Street/41.JPG	1		27	Street	Darlinghurst	225762 485	6249815.103	17.50	10.011	2	r V	5 5	s	B		
525000	Street/37.JPG	1		37	Street	Darlinghurst	335763 485	6249816.092	17.40	18.48	2	v	S	5 5	B		
524999	Street/39.JPG	1		35	Street Boundary	Darlinghurst	335771 543	6249820 704	16.93	17 962	2	Y Y	S	S	B		
524998	Street/35.JPG Boundary	1		33	Street Boundary	Darlinghurst	335771.543	6249820.704	16.93	17.962	2	Y	S	s	B		
524997	Street/33.JPG Boundary	1		31	Street Boundary	Darlinghurst	335780.678	6249825.440	16.25	17.095	2	Y	S	s	B		
524996	Street/31.JPG Boundary	1		29	Street Boundary	Darlinghurst	335780.678	6249825.440	16.25	17.095	2	Y	s	s	В		
524995	Street/29.JPG Boundary	1		27	Street Boundary	Darlinghurst	335793.215	6249833.101	15.06	15.956	2	Y	s	s	В		
529383	Street/27.JPG	1		467	Street	Darlinghurst	335686.505	6249801.936	21.93	22.767	2	· Y	S	S	В		<u> </u>
524340	Street/467.JPG Barcom	-		178	Street Barcom	Darlinghurst	335661.312	6249780.330	23.61	23.862	2	Y	S	s	В		
524341	Avenue/178- Barcom	1		180	Avenue	Darlinghurst	335661.562	6249777.447	23.85	23.821	2	Ŷ	S	S	В		<u> </u>
524342	Avenue/178- Barcom	1		182	Avenue	Darlinghurst	335657.065	6249773.649	24.17	23.821	2	· Y	S	S	В		<u> </u>
527572	Avenue/182.JPG			102	Avenue	Barmghuist	555657.005	52 157 7 5.045	27.17	23.021	_		Ĵ	Ĵ			

NON RESIDENTIAL BUILDINGS													
n <u>d</u> of ss eg. sery, ock	<u>Lowest</u> Floor Level (mAHD)	Approximate Floor Area (m2)	Floor Construction <u>Pier (P) or</u> Slab (S) Other - describe	Wall Construction Brick stone or rendered (B), Clad (C), Mixed (M)									

Floor Level Survey (undertaken in 2014 as part of Rushcutters Bay Floodplain Risk Management Study)

									RESIDENTIAL BUILDINGS NON RESIDENTIAL BUILDINGS												
Parcel Tag	Photo name	Total number	Comment	Street	Street	Sub-Area	Easting (m)	Northing (m)	Indicative	Lowest	Number	Do people	House Size -	Floor	Wall Construction	Туре	Name and	Lowest	Approximate	Floor	Wall Construction
as on		of buildings		Number	Name		_	_	Ground	Habitable	of Storeys	live on the	Small (S),	Construction	Brick stone or	(commercial	Nature of	Floor Level	Floor Area	Construction	Brick stone or
Council									Level	Floor Level		Ground	Medium	Pier (P) or	rendered (B), Clad	= C,	Use/Business eg.	(mAHD)	(m2)	Pier (P) or	rendered (B), Clad
cadastre									(mAHD)	(mAHD)		Floor (Y or	(M), Large	Slab (S) Other	r (C), Mixed (M)	industrial = I,	Bob's Nursery,			Slab (S) Other	(C) , Mixed (M)
(LIC TAG)												<u>N)</u>	<u>(L)</u>	- describe		public = P)	toilet block			- describe	
524313	Barcom	1		115	Barcom	Darlinghurst	335643.633	6249777.977	24.07	25.138	2	Y	S	S	В						
	Avenue/115.JPG				Avenue																
532719	West	1		27	West	Darlinghurst	335631.313	6249772.807	24.90	25.529	2	Y	S	S	В						
524242	Avenue/27.JPG	4		104	Avenue	Deallachuart	225654.445	6240774 204	22.00	24.402	2	, v	6	C C	P						
524343	Barcom Avenue/184.JPG	T		184	Avenue	Darlinghurst	335654.145	6249774.384	23.86	24.192	2	Y	5	5	В						
524344	Barcom	1		188	Barcom	Darlinghurst	335642.466	6249764.591	24.38	25.298	2	Y	S	S	В						
	Avenue/188.JPG				Avenue																
524346	Barcom	1		190	Barcom	Darlinghurst	335642.466	6249764.591	24.38	25.298	2	Y	S	S	В						
	Avenue/188.JPG				Avenue																
524347	Barcom	1		192	Barcom	Darlinghurst	335642.466	6249764.591	24.38	25.298	2	Y	S	S	В						
	Avenue/188.JPG				Avenue																
524589	Bayswater	1		100	Bayswate	Rushcutters	336217.454	6250171.658	6.81	6.308	7	Y	L	S	В	Р	RHS HOTEL		3616		
	Rd/100.JPG				r Rd	Bay											INVESTMENTS				
524611	Bayswater Rd/153-	1		153 to 167	Bayswate	Rushcutters	336220.232	6250129.060	6.39	5.609	10	Y	L	S	В						
	167.JPG				r Rd	Bay															
526321	Clement Place/1-	1		1 to 5	Clement	Rushcutters	336061.217	6250240.846	8.98	9.53	3	Y	L	S	В						
	5.JPG				Place	Bay															
526330	Clement	1		7	Clement	Rushcutters	336039.522	6250250.900	12.01	12.27	3	Y	L	S	В						
	Place/7.JPG				Place	Bay															
533292	Queens Avenue/1-	1		1 to 7	Queens	Rushcutters	336106.461	2650321.015	3.20	3.34	4	N	L	S	В						
	7.JPG				Avenue	Вау															
181991	Oxford	1		391 to 393	Oxford	Paddington	336285.821	6248983.517	65.29	65.157	2	Y	S	S	В	Р	COFFE SHOP		139		
	street/391.JPG				street																
202342	Oxford	1		395	Oxford	Paddington	336295.081	6248961.424	65.11	64.468	1	Ν	S	S	В	Р	THE UNITING		3018		
	street/395.JPG				street												CHURCH IN				
532945	Womerah Ave/8,2-	1		8	Womerah	Darlinghurst	335983.314	6250067.387	16.915	15.920	3	Y	L	S	В						
	6,10.JPG				Ave																
532948	Womerah Ave/8,2-	1		10	Womerah	Darlinghurst	335983.314	6250067.387	16.915	15.920	3	Y	L	S	В						
	6,10.JPG				Ave																
524327	Barcom	1		160	Barcom	Darlinghurst	335716.470	6249851.110	21.396	21.561	2	Y	S	S	В						
	Avenue/160.JPG				Avenue														ļ	ļ	
532939	Womerah Ave/8,2	1		2-6	Womerah	Darlinghurst	336004.380	6250075.129	16.92	16.00	2	Y	S	S	В						
	6,10.JPG				Ave																
529682	McLachlan	1		71	McLachla	Darlinghurst	335996.900	6249940.105	8.70	8.85	1	N	S	S	В	I	CAR REPAIRER		179		
	Ave/71.JPG				n Ave																