

N1498	19766.63	19766.63	0.00	0.0
46110 weir	266.72	0.00	0.00	100.0
Dummy DQ 1	393.92	393.92	0.00	0.0
Dummy DQ 2	403.44	403.44	0.00	0.0
Pit1483	13634.83	13634.83	0.00	-0.0
N1622	8241.35	8241.35	0.00	0.0
N1703	19766.64	19766.63	0.00	0.0
N1704	0.00	0.00	0.00	0.0
N1705	36.72	36.72	0.00	0.0
N1706	0.00	0.00	0.00	0.0
N1707	0.00	0.00	0.00	0.0
N1708	529.28	529.28	0.00	-0.0
N1709	0.00	0.00	0.00	0.0
N1710	0.00	0.00	0.00	0.0
N1711	0.00	0.00	0.00	0.0
N1712	0.00	0.00	0.00	0.0
N1713	0.00	0.00	0.00	0.0
N1714	9.02	9.02	0.00	0.0
N1715	36.72	36.72	0.00	0.0
N1716	0.00	0.00	0.00	0.0
N1717	9.02	9.02	0.00	0.0
N1718	16674.43	16674.42	0.00	0.0
N1719	20295.92	20295.92	0.00	-0.0
N1720	36970.33	36970.33	0.00	0.0
N1721	45.74	45.74	0.00	0.0
N1722	37016.07	37016.07	0.00	0.0
N1723	0.00	0.00	0.00	0.0
N1724	1.31	1.31	0.00	0.0
N1725	3363.35	3363.35	0.00	0.0
N1726	0.00	0.00	0.00	0.0
N1727	106.14	106.14	0.00	0.0
N1728	7.44	7.44	0.00	0.0
N1729	631.40	631.40	0.00	0.0
Pit1563	81.50	81.50	0.00	0.0
N1780	13007.45	13007.45	0.00	0.0
BV01102	3758.75	3758.73	0.00	0.0
BV01101	3988.55	3988.57	0.00	-0.0
102102	1451.68	1452.07	0.00	-0.0
102101	1452.08	1452.07	0.00	0.0
BV02102	3510.42	3510.38	0.00	0.0
BV02101	3639.01	3639.02	0.00	-0.0
BV03102	16.96	16.17	0.00	4.6
BV03101	23.81	24.22	0.00	-1.7
BV04101	0.00	0.00	0.00	0.0
BV05101	493.54	493.52	0.00	0.0
BV06103	3749.33	3749.32	0.00	0.0
BV06102	3931.67	3931.62	0.00	0.0
BV06101	785.63	785.64	0.00	-0.0
96101	364.20	364.20	0.00	0.0
BV07102	126.44	126.43	0.00	0.0
BV07101	361.28	361.27	0.00	0.0
BV08101	161.73	161.72	0.00	0.0
130101	287.93	288.16	0.00	-0.1
BV09102	61.43	61.40	0.00	0.1
BV09101	61.40	61.21	0.00	0.3
BV10102	74.85	74.84	0.00	0.0
BV10101	104.17	104.17	0.00	-0.0
134-01	29.33	29.33	0.00	-0.0
BV11106	0.00	0.00	0.00	0.0
BV11105	141.29	141.27	0.00	0.0
BV11104	281.42	281.43	0.00	-0.0
BV11103	611.87	611.88	0.00	-0.0
BV11102	801.67	801.67	0.00	0.0
BV11101	801.67	801.67	0.00	-0.0
81101	266.97	266.97	0.00	0.0
BV12105	83.41	83.41	0.00	0.0
BV12104	196.52	196.50	0.00	0.0
BV12103	958.54	958.33	0.00	0.0
BV12102	1455.33	1455.34	0.00	-0.0
BV12101	1651.72	1651.73	0.00	-0.0
PA17102	122.13	122.12	0.00	0.0
PA17101	122.12	122.12	0.00	0.0
PA19103	123.65	123.65	0.00	0.0
PA19102	155.13	155.08	0.00	0.0
PA19101	179.20	179.22	0.00	-0.0
PA21104	88.23	88.23	0.00	0.0
PA21103	82.44	82.44	0.00	0.0
PA21102	116.84	116.84	0.00	0.0
PA21101	43.48	43.48	0.00	0.0
PA22105	126.82	126.82	0.00	0.0
PA22104	149.80	149.80	0.00	0.0
PA22103	149.80	149.80	0.00	0.0
PA22102	181.79	181.74	0.00	0.0
PA22101	181.74	181.51	0.00	0.1
9125	9219.70	9219.78	0.00	-0.0
PA23101	117.43	117.42	0.00	0.0
PA23102	117.42	117.42	0.00	0.0
79103	229.43	229.05	0.00	0.2
79102	214.31	214.21	0.00	0.0
PA3102	1560.20	1560.17	0.00	0.0
PA3101	0.00	0.00	0.00	0.0
PA7104	59.92	59.92	0.00	-0.0
PA7103	83.28	83.24	0.00	0.0
PA7102	119.80	118.80	1.00	0.0
PA7101	121.57	121.58	0.00	-0.0
SP01103	37.07	37.07	0.00	0.0
SP01102	69.19	69.18	0.00	0.0
SP01101	69.18	69.17	0.00	0.0
SP02104	92.29	92.29	0.00	-0.0
SP02103	144.47	144.47	0.00	-0.0

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APPENDIX C

TUFLOW MODEL INPUTS & OUTPUTS

Survey and DEM Notes

The topographical survey triangulation provided by Rygate and Company Pty Ltd excluded a number of spot levels (necessary to define change in grade surface levels), the full definition of the kerbs and road pavement levels. The resulting existing surface triangulation (in the DEM provided by Rygate and Company Pty Ltd) was not representative of all the features surveyed. Typically, this presented itself as contours not corresponding to surveyed spot levels and no definition of the kerbs and gutters at the sides of roads.

Using 12d software, Hyder manually created three-dimensional strings and points based on levels in the Rygate and Company Pty Ltd survey to improve the definition of the existing surface in areas of particular importance (Darling Drive, Hay Street car park entrances, the plaza and Harbour Street adjacent to the Entertainment Centre and the area around Pier Street). The existing kerb types (mountable kerb, kerb and gutter, barrier kerb, dish gutter et cetera) were recorded during site visits and their principle dimensions taken. The kerbs modelled represent the idealised shape of the kerbs (i.e. based on standard kerb construction details). Variations in kerb heights have not been possible to model. This data can only be recorded by detailed topographical survey.

The three-dimensional points and strings were triangulated to create a more representative existing surface model. This surface was then used to supersede the Rygate and Company Pty Ltd triangulation in the location that they overlapped.

Build-up of the existing surface model

The existing surface model is made up from a number of datasets each with an increasing level of accuracy. Each dataset replaces data from the preceding dataset.

The first surface is the Lidar/ALS data provided by City of Sydney. This data set covers approximately 4x4km. This is replaced by the Lidar/ALS provided by Worley Parsons (and used in their flood modelling). In turn, this is replaced by the Rygate and Company topographical survey triangulation and then by the Hyder manually created survey.

Build-up of the proposed re-development surface model

The existing surface model was modified to include the surface representation of the SICEEP site development proposal.



60 90 120 150m

REPORT FIGURED Fee/MP FL 0103-1007A/E using Conditions Food Dept/Andr...

DESCRIPTION

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PROJECT MANAGEMENT & CONSTRUCTION

PROJECT PRECINCT

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Lend Lease

PROJECT MANAGEMENT & CONSTRUCTION
 LEVEL 4 THE BOND, 30 HICKSON RD MILLERS POINT NSW 2000

PROJECT MANAGEMENT & CONSTRUCTION
LEVEL 4 THE BOND, 30 HICKSON RD MILLERS POINT NSW 2000



DRAWING TITLE		PME		EXISTING CONDITIONS		FLOOD DEPTH AND LEVEL CONTOURS	
STATUS		PRELIMINARY ONLY					
SCALE	A1	DRAWN	DESIGNED	REVIEWED	APPROVED		
1:1500	RD	CM	CM	BC	JH		
PROJECT NUMBER	DRAWING NUMBER		REV				
A4004399	WP-F1-0104		01				

Original Sheet Size A1 - 841 x 594 mm



