

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA  
AERONAUTICAL INFORMATION PUBLICATION  
AERODROME OBSTACLE CHART (DECEMBER 2018)  
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)  
( 07 TAKE OFF )

**(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)**

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 190130.red

Mid-point of origin		Runway Bearing	Height at		Runway Length	Chainage at Origin	Height at Origin	
Easting	Northing		Chainage 00				(m)	(ft)
(MGA94)	(MGA94)	(Deg Min Sec)	(m) (ft)		(metres)	(metres)		
332799.696	6243319.910	73° 10' 55"	4.896 (16.1)		2529.9	2619.9	6.012	(19.7)

**EXPLANATION OF SPECIFIC TERMS**

<b>Chart No.</b>	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting <u>only</u> the Significant Obstacles.
	<u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next.
	2. The previous year's Chart No is also supplied for cross-referencing purposes.
<b>Reference Number</b>	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
<b>Type of Obstacle</b>	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
<b>Description</b>	General description of the respective obstacle.

Chart No. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)									
		8	333091.0	6243510.9	14.3	46.9	10.0	4.3	SPIRE	2954.0	98.5 North	2.50	Elec Pole with Light	Nov 18	N
		10	333110.2	6243470.6	14.5	47.6	10.1	4.4	SPIRE	2960.8	54.4 North	2.49	Elec Pole with Light	Nov 18	N
		12	333123.8	6243422.0	14.0	45.9	10.1	3.9	SPIRE	2959.7	3.9 North	2.36	Elec Pole with Light	Nov 18	N
		18	333133.5	6243420.4	14.6	47.9	10.2	4.4	SPIRE	2968.6	0.4 South	2.47	Elec Pole with Light	Nov 18	N
		20	333128.1	6243444.8	14.9	48.9	10.2	4.6	SPIRE	2970.4	24.6 North	2.52	Elec Pole with Light	Nov 18	N
		22	333121.5	6243476.0	14.5	47.6	10.3	4.3	SPIRE	2973.1	56.3 North	2.41	Elec Pole with Light	Nov 18	N
		24	333109.1	6243511.4	15.0	49.2	10.2	4.8	SPIRE	2971.5	93.8 North	2.56	Elec Pole with Light	Nov 18	N
		32	333099.8	6243550.3	13.4	44.0	10.3	3.1	SPIRE	2973.8	133.7 North	2.08	Light Pole	Nov 18	N
		36	333138.8	6243401.5	14.3	46.9	10.2	4.1	SPIRE	2968.2	20 South	2.39	Light Pole	Nov 18	N
51	55	39	333280.4	6243435.9	20.0	65.6	11.9	8.1	SPIRE	3113.7	28.1 South	2.83	Sewer Vent	Nov 18	N
		43	333724.5	6243777.0	22.3	73.2	18.2	4.0	SPIRE	3637.4	170 North	1.60	Sewer Vent	Nov 18	N
103	107	45	333856.6	6243600.4	28.8	94.5	19.1	9.7	TREE	3712.8	37.3 South	2.09	Pine Tree	Nov 18	N
112	116	47	333963.7	6243586.9	30.2	99.1	20.3	9.9	TREE	3811.4	81.2 South	2.03	Pine Tree Group	Nov 18	N
121	126	48	334385.5	6243522.9	36.7	120.4	24.9	11.7	SPIRE	4196.7	264.5 South	1.94	Traffic Camera+Mobile phone	Nov 16	N
		49	334046.4	6243811.2	27.8	91.2	22.0	5.8	TREE	3955.5	109.6 North	1.63	Pine Tree	Nov 18	N
	4	50	332899.3	6243353.2	7.7	25.3	7.3	0.4	SPIRE	2724.9	3 North	1.61	07 Localiser	Nov 18	Y
		53	334107.6	6243829.3	29.1	95.5	22.8	6.3	TREE	4019.3	109.2 North	1.65	Gum and Pines	Nov 18	N
		55	334118.4	6243879.0	24.4	80.1	23.1	1.3	SPIRE	4044.0	153.7 North	1.29	Sewer Vent	Nov 18	N
		56	332924.1	6243357.6	7.9	25.9	7.6	0.3	LINES	2750.0	0.1 North	1.45	Blast Deflector N join	Nov 18	Y
		57	334369.7	6243871.9	34.9	114.5	26.0	8.9	TREE	4282.5	74.1 North	1.74	Pine Tree	Nov 18	N
		58	332923.4	6243329.1	8.3	27.2	7.5	0.8	LINES	2741.0	27 South	1.87	Blast Deflector S join (highest point)	Nov 18	Y
8	8	60	332922.3	6243290.9	8.0	26.2	7.3	0.7	LINES	2728.9	63.2 South	1.87	Blast Deflector S end	Nov 18	Y
		61	335886.4	6244711.9	53.4	175.2	46.3	7.1	SPIRE	5977.4	439.4 North	1.41	St Spyridon West Tower	Nov 18	N
		67	337864.4	6245117.9	92.9	304.8	70.4	22.5	SPIRE	7988.3	255.7 North	1.62	Trig Station atop water tower	Nov 18	N
		69	338748.4	6244452.9	78.8	258.5	78.3	0.5	BLDG	8642.1	636.6 South	1.21	Building	Jan 14	N
		73	338870.5	6244447.7	90.4	296.6	79.7	10.7	TREE	8757.4	676.9 South	1.37	Norfolk Pine Tree	Nov 18	N
		75	338956.4	6244288.9	80.4	263.8	80.1	0.3	BLDG	8793.7	853.8 South	1.20	Roof of House	Jan 14	N
122	127	77	334673.3	6243758.6	44.6	146.3	29.1	15.6	ANTEN	4540.3	122.2 South	2.01	Mobile Phone Tower	Nov 18	N
		98	332941.5	6243322.3	9.2	30.2	7.6	1.6	SPIRE	2756.4	38.7 South	2.36	Light Pole	Nov 18	Y
5	5	99	332897.7	6243369.3	7.9	25.9	7.3	0.6	SPIRE	2728.1	18.9 North	1.73	Obstruction Light (Lit 1/1)	Nov 18	Y
		100	332942.1	6243292.1	9.2	30.2	7.6	1.7	SPIRE	2748.2	67.8 South	2.49	Light Pole	Nov 18	Y
6	6	101	332908.9	6243332.5	7.9	25.9	7.3	0.6	SPIRE	2728.1	19.5 South	1.72	Obstruction Light (Lit 1/1)	Nov 18	Y
9	9	102	332942.6	6243263.4	9.1	29.9	7.5	1.7	SPIRE	2740.4	95.5 South	2.58	Light Pole	Nov 18	Y
		109	333138.3	6243378.8	14.4	47.2	10.1	4.3	SPIRE	2961.1	41.6 South	2.47	Light Pole	Nov 18	N
24		113	333125.3	6243297.3	14.3	46.9	9.7	4.6	SPIRE	2925.1	115.8 South	2.71	Light Pole	Nov 18	N
26		115	333129.2	6243326.6	15.6	51.2	9.8	5.7	SPIRE	2937.3	88.9 South	3.01	Light Pole	Nov 18	N
	29	117	333148.5	6243317.7	15.1	49.5	10.0	5.1	SPIRE	2953.2	103 South	2.73	Light Pole	Nov 18	N
		119	333155.7	6243299.4	13.9	45.6	10.0	3.9	SPIRE	2954.8	122.6 South	2.35	Light Pole	Nov 18	N
38	44	125	333225.4	6243305.9	16.7	54.8	10.9	5.8	SPIRE	3023.4	136.6 South	2.65	Light Pole	Nov 18	N

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					MGA94										
					metres	(feet)	metres	metres							
		127	333258.0	6243317.4	16.7	54.8	11.3	5.4	SPIRE	3057.9	135 South	2.44	Light Pole	Jan 18	N
46	50	137	333273.4	6243340.3	20.8	68.2	11.5	9.3	TREE	3079.3	117.5 South	3.22	Gum Tree	Nov 18	N
		139	333262.1	6243351.5	16.5	54.1	11.4	5.0	ANTEN	3071.7	103.6 South	2.31	TV Antenna (used to be Chimney at 15.5)	Jan 18	N
		143	333361.5	6243426.2	18.8	61.7	12.8	6.0	BLDG	3188.5	60.8 South	2.25	Tile Roof of House	Nov 18	N
		147	333757.7	6243598.6	19.5	64.0	18.0	1.5	SPIRE	3617.6	10.4 South	1.35	Light Pole	Nov 18	N
		149	333789.4	6243579.9	20.5	67.3	18.3	2.2	SPIRE	3642.6	37.5 South	1.42	Light Pole	Dec 15	N
		151	333817.4	6243590.9	20.5	67.3	18.6	1.9	SPIRE	3672.6	35.1 South	1.38	Light Pole	Dec 15	N
		153	333834.4	6243562.9	21.8	71.5	18.7	3.1	SPIRE	3680.7	66.8 South	1.49	Light Pole	Nov 16	N
		155	333874.4	6243549.9	22.9	75.1	19.2	3.7	SPIRE	3715.3	90.8 South	1.54	Light Pole	Dec 16	N
		157	333916.4	6243539.9	22.8	74.8	19.6	3.2	SPIRE	3752.6	112.5 South	1.48	Light Pole	Dec 16	N
		159	333952.4	6243535.9	23.0	75.5	20.0	3.0	SPIRE	3785.9	126.8 South	1.46	Light Pole	Oct 12	N
		161	333985.4	6243533.9	22.8	74.8	20.4	2.4	SPIRE	3816.9	138.2 South	1.40	Light Pole	Jan 14	N
		163	333984.4	6243555.9	22.6	74.1	20.4	2.2	SPIRE	3822.3	116.9 South	1.38	Light Pole	Jan 14	N
		165	333928.4	6243559.9	22.0	72.2	19.8	2.2	SPIRE	3769.9	96.9 South	1.39	Light Pole	Oct 12	N
20	20	168	332997.8	6243360.2	13.8	45.3	8.4	5.4	TREE	2821.2	18.8 South	3.89	Tree Group	Jan 19	Y
123	128	169	336559.4	6245074.9	71.6	234.9	55.3	16.3	ANTEN	6726.7	592.1 North	1.60	Antenna on Flats	Nov 18	N
		173	336548.4	6244825.9	59.9	196.5	54.3	5.6	ANTEN	6644.1	356.9 North	1.34	Antenna	May 16	N
		175	336665.4	6244806.9	66.7	218.8	55.6	11.1	SPIRE	6750.6	304.9 North	1.47	Sewer Vent	Nov 18	N
		177	336029.4	6244755.9	60.3	197.8	48.1	12.2	BLDG	6127.0	440.1 North	1.55	Air Cond. Cooling Tower	Nov 18	N
		178	332997.6	6243318.8	11.2	36.7	8.3	2.9	TREE	2809.1	58.3 South	2.74	Tree	Nov 18	Y
		179	336229.4	6244917.9	54.2	177.8	51.0	3.2	BLDG	6365.3	537.3 North	1.29	Roof of Flats	Nov 18	N
		183	338028.1	6245012.3	89.5	293.6	71.9	17.5	TREE	8114.4	107.3 North	1.52	She Oak	Dec 15	N
	137	185	338062.9	6244982.8	100.0	328.1	72.2	27.8	TREE	8139.1	68.9 North	1.70	Fig Tree	Jan 19	N
		187	338103.8	6244910.3	96.4	316.3	72.5	23.9	TREE	8157.4	12.3 South	1.63	Norfolk Pine Tree	Jan 19	N
		189	338046.4	6244982.9	91.0	298.6	72.1	18.9	BLDG	8123.4	73.8 North	1.54	Chimney	Dec 15	N
		191	336623.4	6244757.9	62.6	205.4	54.9	7.7	SPIRE	6696.2	270.2 North	1.39	Sewer Vent	Nov 18	N
		193	336708.4	6244898.9	70.1	230.0	56.4	13.7	ANTEN	6818.4	380.5 North	1.53	Antenna	Nov 18	N
		194	333240.3	6243366.1	16.4	53.8	11.2	5.2	SPIRE	3055.1	83.3 South	2.40	Flood Light	Nov 18	N
		198	333254.6	6243386.4	15.3	50.2	11.5	3.8	SPIRE	3074.6	68 South	2.03	Flood Light	Nov 18	N
		200	333269.5	6243398.8	16.8	55.1	11.7	5.1	SPIRE	3092.5	60.4 South	2.29	Flood Light	Nov 18	N
		203	332922.2	6243445.3	9.0	29.5	7.9	1.2	SPIRE	2773.5	84.6 North	1.97	Light Pole	Nov 18	Y
86	90	204	333579.2	6243743.4	26.7	87.6	16.4	10.3	TREE	3488.6	179.8 North	2.38	Tree	Nov 18	N
		205	332927.4	6243430.9	9.1	29.9	7.9	1.2	SPIRE	2774.3	69.3 North	2.00	Light Pole	Nov 18	Y
85	89	206	333577.9	6243733.7	25.6	84.0	16.4	9.2	TREE	3484.6	171 North	2.27	Tree	Nov 18	N
		207	332933.0	6243412.4	9.1	29.9	7.9	1.3	SPIRE	2774.3	50 North	2.02	Light Pole	Nov 18	Y
		209	332936.6	6243393.3	9.2	30.2	7.8	1.4	SPIRE	2772.3	30.6 North	2.09	Light Pole	Nov 18	Y
		210	334417.3	6243926.3	36.1	118.4	26.7	9.4	TREE	4343.8	112.4 North	1.75	Tree	Nov 18	N
		211	332939.8	6243376.8	9.1	29.9	7.8	1.3	SPIRE	2770.5	14 North	2.05	Light Pole	Nov 18	Y
		214	336625.5	6244725.2	61.1	200.5	54.8	6.3	ANTEN	6688.7	238.3 North	1.35	Antenna on Roof of units	Nov 18	N

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					MGA94										
					metres	(feet)	(%)								
		216	336491.3	6244703.6	56.2	184.4	53.2	3.0	BLDG	6554.0	256.4 North	1.28	NE Cnr Air Cond Vent	May 16	N
		218	336459.0	6244665.0	57.2	187.7	52.7	4.5	SPIRE	6511.9	228.8 North	1.32	Flag Pole	May 16	N
		220	336232.9	6244871.3	59.7	195.9	50.8	8.9	BLDG	6355.1	491.7 North	1.44	Lightning Conductor on roof	Nov 18	N
		226	338119.1	6244770.9	85.8	281.5	72.2	13.6	TREE	8131.7	150.1 South	1.45	Palm Tree	Feb 16	N
		228	338157.4	6244826.9	93.9	308.1	72.8	21.1	TREE	8184.5	107.6 South	1.58	Tree	Jan 18	N
		230	338134.9	6244824.4	93.0	305.1	72.5	20.5	TREE	8162.3	103.6 South	1.57	Tree	Feb 18	N
		234	338151.6	6244841.7	92.7	304.1	72.8	19.9	TREE	8183.2	91.8 South	1.56	Tree	Feb 16	N
	134	291	337942.0	6244798.9	88.7	291.0	70.2	18.5	ANTEN	7970.3	72.1 South	1.55	Antenna on Flats	Nov 18	N
		295	338143.5	6244836.5	91.4	299.9	72.7	18.7	BLDG	8174.0	94.4 South	1.54	House Roof	Nov 14	N
		297	338895.3	6244276.7	82.0	269.0	79.4	2.6	TREE	8731.6	847.8 South	1.24	Gum Tree	Feb 16	N
		299	338909.1	6244291.7	79.6	261.2	79.6	0.0	BLDG	8749.2	837.4 South	1.20	Tile House Roof	Jan 14	N
61	65	343	333366.4	6243412.7	25.4	83.3	12.8	12.6	TREE	3189.2	75.1 South	3.41	Gum Tree	Nov 18	N
		344	334435.1	6244011.4	32.3	106.0	27.2	5.1	TREE	4385.5	188.7 North	1.49	Palm tree	Dec 16	N
		348	337567.1	6244849.7	74.0	242.8	66.1	7.9	TREE	7626.0	85 North	1.36	Tree	Nov 18	N
	39	349	333145.1	6243493.5	15.7	51.5	10.6	5.1	BLDG	3000.8	66.2 North	2.54	G.I. Factory Roof	Nov 18	N
	129	352	337614.0	6245387.8	91.5	300.2	68.5	23.0	TREE	7826.7	586.5 North	1.64	Pine Tree	Feb 18	N
		353	338864.8	6244449.4	84.3	276.6	79.6	4.7	TREE	8752.4	673.7 South	1.28	Norfolk Pine Tree	Feb 16	N
	131	356	337682.3	6245375.5	95.5	313.3	69.2	26.3	TREE	7888.5	554.9 North	1.70	Pine Tree	Jan 19	N
		357	333943.8	6243613.3	25.0	82.0	20.2	4.8	TREE	3800.0	50.1 South	1.61	Group of Shrubs	Oct 12	N
	132	358	337689.4	6245406.7	96.4	316.3	69.4	27.0	TREE	7904.3	582.8 North	1.71	Tree	Jan 19	N
		359	333842.3	6243603.9	24.5	80.4	19.0	5.6	TREE	3700.1	29.8 South	1.71	Pine Tree	Dec 16	N
	130	360	337640.2	6245349.9	92.7	304.1	68.7	24.0	TREE	7840.7	542.6 North	1.66	Tree	Jan 19	N
		366	337172.3	6245178.6	75.5	247.7	62.7	12.8	TREE	7343.3	514.1 North	1.47	Pine Tree	Nov 18	N
		368	334441.7	6243988.6	28.0	91.9	27.2	0.8	SPIRE	4385.2	165 North	1.25	Elec Pole	Dec 16	N
		370	334458.0	6243958.4	28.0	91.9	27.3	0.7	BLDG	4392.1	131.4 North	1.24	Apex of house roof	Dec 15	N
		372	334434.1	6243959.5	27.1	88.9	27.0	0.0	SPIRE	4369.5	139.3 North	1.20	Elec Pole	Dec 15	N
		373	333951.8	6243615.1	21.5	70.5	20.3	1.2	TERRN	3808.1	50.8 South	1.30	Natural surface	Oct 12	N
84	88	378	333637.7	6243508.8	33.7	110.6	16.3	17.4	TREE	3476.7	61.6 South	3.23	Sheoak	Jan 19	N
88	93	380	333687.3	6243524.0	33.2	108.9	16.9	16.3	TREE	3528.6	61.5 South	2.99	Sheoak	Nov 18	N
91	96	382	333720.3	6243536.7	31.5	103.3	17.3	14.2	TREE	3563.9	58.9 South	2.70	Sheoak	Nov 18	N
99		384	333790.9	6243518.7	26.6	87.3	18.1	8.6	TREE	3626.3	96.5 South	2.05	Tree	Nov 18	N
		409	333917.8	6243633.6	24.5	80.4	19.9	4.6	TREE	3781.0	23.2 South	1.59	Banksia	Oct 12	N
		413	333899.6	6243625.4	21.2	69.6	19.7	1.5	TREE	3761.2	25.8 South	1.33	Tree and Banksias (2)	Oct 12	N
		455	333941.1	6243586.7	23.0	75.5	20.0	3.0	LINES	3789.7	74.8 South	1.45	Fence	Oct 12	N
		457	333938.1	6243587.1	22.3	73.2	20.0	2.3	LINES	3786.9	73.6 South	1.39	Fence	Oct 12	N
		459	333923.2	6243588.8	21.5	70.5	19.9	1.7	LINES	3773.2	67.7 South	1.34	Fence	Oct 12	N
95	100	465	333721.4	6243659.1	30.7	100.7	17.8	12.9	TREE	3600.4	58 North	2.52	Stringy Bark	Nov 18	N
96		467	333732.0	6243650.7	26.9	88.3	17.9	9.0	TREE	3608.0	46.9 North	2.11	Stringy Bark	Nov 18	N
98	102	469	333748.1	6243644.1	28.9	94.8	18.0	10.9	TREE	3621.6	35.9 North	2.29	Stringy Bark	Nov 18	N

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					MGA94										
					metres	(feet)									
3	3	470	332865.6	6243425.9	7.6	24.9	7.1	0.5	BLDG	2713.7	82.4 North	1.73	Eastern Lighting Equipment Rood (ELER)	Nov 18	Y
101	104	471	333753.5	6243650.6	29.2	95.8	18.1	11.1	TREE	3628.6	40.6 North	2.30	Stringy Bark	Nov 18	N
97	101	493	333722.7	6243725.8	38.1	125.0	18.0	20.1	TREE	3620.9	121.5 North	3.21	Gum Tree Group	Jan 19	N
		521	333828.1	6243767.3	23.9	78.4	19.4	4.5	TREE	3733.8	130.7 North	1.61	Pine Tree	Nov 18	N
		523	333841.6	6243763.5	26.5	86.9	19.5	7.0	TREE	3745.7	123.2 North	1.82	Gum and Pines	Jan 18	N
108	112	535	333868.8	6243771.2	29.7	97.4	19.9	9.9	TREE	3773.9	122.7 North	2.05	Gum and Pines	Nov 18	N
		549	333928.3	6243777.2	26.8	87.9	20.6	6.2	TREE	3832.6	111.2 North	1.71	Gum Tree	Jan 14	N
		555	333941.0	6243789.2	25.7	84.3	20.8	4.9	TREE	3848.2	119 North	1.60	Gum	Nov 18	N
113	119	563	333962.7	6243785.5	33.8	110.9	21.0	12.8	TREE	3867.9	109.2 North	2.23	Gum Tree	Nov 18	N
		565	333981.7	6243796.7	23.7	77.8	21.2	2.5	TREE	3889.4	114.4 North	1.39	Pine Tree	Dec 16	N
119	124	575	334034.2	6243803.8	31.4	103.0	21.9	9.6	TREE	3941.7	106 North	1.92	Gums and Pines	Nov 18	N
		585	334147.2	6243838.3	27.4	89.9	23.3	4.1	TREE	4059.8	106.4 North	1.49	Pines	Nov 18	N
		595	334149.1	6243823.6	28.4	93.2	23.3	5.1	TREE	4057.4	91.7 North	1.56	Pines and Gums	Nov 18	N
		615	334301.3	6243864.7	27.2	89.2	25.2	2.0	TREE	4214.9	87.1 North	1.33	Pine Trees	Dec 15	N
		617	334322.5	6243865.1	32.0	105.0	25.4	6.6	TREE	4235.4	81.2 North	1.61	Pine Trees	Nov 18	N
		623	334352.0	6243875.6	29.2	95.8	25.8	3.4	TREE	4266.6	82.8 North	1.41	Pine Trees	Dec 15	N
		669	337457.9	6244933.6	75.0	246.1	65.1	9.9	ANTEN	7545.8	196.9 North	1.40	TV Antenna	Nov 18	N
		671	338445.2	6244258.7	75.4	247.4	74.1	1.3	TREE	8295.6	734.8 South	1.22	M.B. Fig Tree	Jan 14	N
		680	338203.4	6244757.3	94.0	308.4	73.1	20.9	TREE	8208.4	187.6 South	1.57	Gum	Nov 18	N
		725	332927.7	6243371.7	8.2	26.9	7.7	0.6	MOVG	2757.4	12.5 North	1.60	Perimeter Road Crown (plus 3.6m)	Nov 16	Y
7	7	729	332926.0	6243276.7	8.4	27.6	7.3	1.1	MOVG	2728.3	77.9 South	2.23	Perimeter Road Crown (plus 3.6m)	Nov 16	Y
68	72	780	333362.4	6243654.2	26.3	86.3	13.6	12.7	TREE	3255.3	157.2 North	3.20	Gum Tree	Nov 18	N
		782	333229.1	6243389.2	15.9	52.2	11.2	4.7	SPIRE	3051.0	57.9 South	2.29	Vent Pipe	Nov 18	N
55	59	812	333323.2	6243357.7	23.9	78.4	12.2	11.7	TREE	3132.0	115.3 South	3.49	Row of Sheoaks	Nov 18	N
		815	332924.1	6243448.9	8.3	27.2	7.9	0.4	MOVG	2776.4	87.4 North	1.45	Road Crown (plus 4.3m)	Dec 15	Y
		821	332944.3	6243355.6	8.4	27.6	7.8	0.6	MOVG	2768.7	7.7 South	1.58	Road Crown (plus 4.3m)	Dec 15	Y
56	60	824	333328.8	6243360.5	23.9	78.4	12.2	11.7	TREE	3138.2	114.2 South	3.45	Row of Sheoaks	Nov 18	N
58	62	826	333340.4	6243363.8	23.2	76.1	12.4	10.9	TREE	3150.2	114.4 South	3.25	Row of Sheoaks	Nov 18	N
		827	332945.7	6243259.6	8.3	27.2	7.5	0.9	MOVG	2742.3	100 South	1.91	Road Crown (plus 4.3m)	Nov 16	Y
59	63	828	333360.1	6243379.3	23.7	77.8	12.7	11.0	TREE	3173.6	105.3 South	3.19	Gum Tree	Nov 18	N
62	66	830	333379.3	6243389.9	28.4	93.2	12.9	15.5	TREE	3195.0	100.7 South	3.90	Gum Tree	Jan 19	N
65	69	834	333405.5	6243408.6	28.4	93.2	13.3	15.1	TREE	3225.5	90.4 South	3.70	Gum Tree	Jan 19	N
66	70	836	333410.6	6243414.2	29.3	96.1	13.4	15.9	TREE	3231.9	86.5 South	3.80	Gum Tree	Jan 19	N
64	68	838	333397.2	6243410.3	25.3	83.0	13.2	12.1	TREE	3218.0	86.4 South	3.23	Gum Tree	Nov 18	N
67	71	842	333423.8	6243433.3	30.4	99.7	13.6	16.9	TREE	3250.1	72 South	3.87	Gum Tree	Jan 19	N
		843	332959.1	6243468.7	10.8	35.4	8.4	2.4	MOVG	2815.5	96.3 North	2.44	Road (West Edge) (plus 4.6m)	Nov 16	N
89	94	844	333652.7	6243686.8	26.1	85.6	17.1	9.0	TREE	3542.6	104.4 North	2.17	Gum Tree	Nov 18	N
93	98	846	333675.4	6243701.2	30.2	99.1	17.4	12.8	TREE	3568.5	111.6 North	2.55	Gum Tree	Nov 18	N
		847	332961.4	6243414.7	10.9	35.8	8.2	2.7	MOVG	2802.2	44 North	2.67	Road (West Edge) (plus 4.6m)	Nov 16	N

Chart No. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	(%)							
13		849	332962.3	6243351.2	10.7	35.1	8.0	2.8	MOVG	2784.6	17.1 South	2.87	Road (West Edge) (plus 4.6m)	Nov 16	N
94	99	854	333701.5	6243703.3	37.8	124.0	17.7	20.1	TREE	3594.1	106.1 North	3.26	Gum Tree	Jan 19	N
12	12	855	332963.2	6243268.3	10.6	34.8	7.7	2.9	MOVG	2761.5	96.7 South	3.23	Road (West Edge) (plus 4.6m)	Nov 16	N
45	49	867	333208.2	6243539.5	17.6	57.7	11.5	6.1	BLDG	3074.5	92 North	2.55	SW cnr Conc Building	Nov 18	N
		869	333222.8	6243537.3	17.6	57.7	11.6	6.0	BLDG	3087.9	85.7 North	2.48	SE cnr Conc Building	Nov 18	N
		871	333231.3	6243593.3	17.6	57.7	11.9	5.7	BLDG	3112.1	136.8 North	2.35	NE cnr Conc Building	Nov 18	N
		873	333272.5	6243575.6	17.5	57.4	12.3	5.2	BLDG	3146.4	107.9 North	2.18	Blue Conc Sail	Nov 18	N
		875	333257.3	6243531.6	16.5	54.1	12.0	4.4	BLDG	3119.3	70.2 North	2.09	Green Conc Sail	Nov 16	N
49	53	884	333285.2	6243392.8	18.8	61.7	11.8	6.9	TREE	3105.8	70.8 South	2.63	Gum Tree	Nov 18	N
18		947	332992.9	6243285.9	12.3	40.4	8.1	4.2	SPIRE	2795.0	88.4 South	3.58	Light pole (lit)	Nov 18	N
		983	333129.3	6243361.2	14.0	45.9	9.9	4.1	SPIRE	2947.4	55.8 South	2.44	Light pole	Nov 18	N
50	54	1162	333258.9	6243506.1	19.0	62.3	11.9	7.1	TREE	3113.3	45.4 North	2.63	Gum Tree	Nov 18	N
		1257	332899.1	6243413.8	7.5	24.6	7.5	0.0	SPIRE	2742.3	61.1 North	1.21	Localizer shed	Nov 18	Y
2	2	1258	332806.3	6243321.8	7.5	24.6	6.1	1.4	SPIRE	2626.8	0.1 South	21.49	RWY07 Localiser Monitoring point	Jan 19	Y
100	103	1263	333758.1	6243632.4	30.6	100.4	18.1	12.5	TREE	3627.8	21.8 North	2.44	Tree	Nov 18	N
	92	1264	333613.3	6243703.1	24.4	80.1	16.7	7.7	TREE	3509.7	131.4 North	2.07	Tree	Nov 18	N
110	114	1270	333934.5	6243601.9	31.3	102.7	20.0	11.3	TREE	3787.7	58.4 South	2.16	Tree	Nov 18	N
		1271	333933.6	6243590.7	27.6	90.6	20.0	7.6	TREE	3783.7	68.8 South	1.86	Tree	Nov 16	N
		1272	333940.8	6243587.3	23.9	78.4	20.0	3.9	LINES	3789.6	74.2 South	1.53	Fence	Oct 12	N
10	10	1725	332899.8	6243411.4	9.4	30.8	7.5	1.9	ANTEN	2742.2	58.6 North	2.77	Aerial	Nov 18	Y
77	81	1738	333523.1	6243452.1	29.1	95.5	14.8	14.4	TREE	3350.7	82.8 South	3.16	Tree	Nov 18	N
69	73	1739	333464.3	6243367.4	27.2	89.2	13.8	13.4	TREE	3269.9	146.9 South	3.26	Tree	Nov 18	N
11	11	1776	332901.7	6243411.5	9.4	30.8	7.5	1.9	ANTEN	2744.1	58.2 North	2.73	Aerial	Nov 18	Y
		1777	332873.9	6243422.6	7.4	24.3	7.2	0.2	SPIRE	2720.7	76.8 North	1.42	Vent	Nov 18	Y
		1801	336772.0	6244826.0	72.0	236.2	56.9	15.1	ANTEN	6858.1	292.4 North	1.56	Antenna	Nov 18	N
73	77	1803	333488.1	6243384.2	25.2	82.7	14.1	11.0	TREE	3297.5	137.7 South	2.83	Tree	Nov 18	N
	135	2312	337870.1	6245077.7	93.4	306.4	70.4	23.1	ANTEN	7982.1	215.5 North	1.63	Mobile Phone Tower	Nov 18	N
111	115	2322	333905.9	6243702.2	34.3	112.5	20.0	14.3	TREE	3789.4	45.9 North	2.42	Tree	Nov 18	N
		2324	334699.4	6243956.4	38.8	127.3	30.0	8.8	TREE	4622.6	59.6 North	1.64	Norfolk Pine Tree	Nov 18	N
63	67	2890	333390.0	6243391.0	28.7	94.2	13.0	15.7	TREE	3205.6	102.7 South	3.88	Tree	Jan 19	N
		2892	334413.0	6243937.3	37.6	123.4	26.7	10.9	TREE	4342.9	124.2 North	1.83	Pine Tree	Nov 18	N
		2893	334348.1	6243937.2	30.2	99.1	25.9	4.3	TREE	4280.7	142.9 North	1.46	Tree	Dec 15	N
		2894	334500.8	6243922.2	38.7	127.0	27.6	11.0	TREE	4422.5	84.3 North	1.81	Pine Tree	Nov 18	N
		2895	334463.5	6243970.6	34.1	111.9	27.4	6.7	TREE	4400.8	141.5 North	1.58	Tree	Nov 18	N
72	76	2941	333470.5	6243441.9	30.7	100.7	14.1	16.5	TREE	3297.4	77.3 South	3.64	Tree	Jan 19	N
34	37	2955	333197.9	6243297.8	18.8	61.7	10.5	8.2	TREE	2994.8	136.4 South	3.40	Tree	Nov 18	N
53	57	3112	333245.7	6243592.8	22.8	74.8	12.1	10.7	TREE	3125.8	132.1 North	3.31	Tree	Nov 18	N
71	75	3114	333406.6	6243648.4	25.1	82.3	14.1	11.0	TREE	3295.9	138.9 North	2.83	Norfolk Pine Tree	Nov 18	N
81	85	3115	333549.1	6243567.8	26.8	87.9	15.5	11.3	TREE	3409.0	20.5 North	2.63	Tree	Nov 18	N

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					MGA94										
					metres	(feet)									
57	61	3185	333282.5	6243513.8	22.2	72.8	12.2	10.0	TREE	3138.2	45.9 North	3.12	Tree	Nov 18	N
		3307	337983.1	6245050.1	94.6	310.4	71.6	23.0	TREE	8082.3	156.5 North	1.62	Gum Tree	Nov 18	N
		3309	338786.1	6244518.8	86.5	283.8	78.9	7.6	TREE	8697.1	584.4 South	1.32	Pine Tree	Nov 18	N
		3314	338805.6	6244531.3	86.0	282.2	79.2	6.8	TREE	8719.4	578.2 South	1.31	Pine Tree	Nov 18	N
		3315	332848.7	6243427.3	7.3	24.0	6.9	0.4	MOVG	2697.9	88.6 North	1.67	Road surface (plus 3.6m)	Nov 16	Y
29	32	3326	333162.0	6243301.1	20.4	66.9	10.1	10.3	TREE	2961.3	122.9 South	4.21	Tree	Jan 19	N
40	46	3332	333240.5	6243343.3	19.6	64.3	11.2	8.4	TREE	3048.7	105.2 South	3.16	Tree	Nov 18	N
43	47	3334	333193.8	6243580.9	19.4	63.6	11.4	7.9	TREE	3072.7	135.8 North	2.96	Tree	Nov 18	N
44	48	3335	333260.8	6243360.6	19.6	64.3	11.4	8.2	TREE	3073.1	94.5 South	3.00	Tree	Nov 18	N
52	56	3339	333259.6	6243541.9	21.6	70.9	12.1	9.6	TREE	3124.4	79.4 North	3.10	Tree	Nov 18	N
54	58	3340	333259.3	6243553.6	21.0	68.9	12.1	8.9	TREE	3127.5	90.7 North	2.95	Tree	Nov 18	N
		3341	333339.6	6243484.8	17.6	57.7	12.8	4.8	SPIRE	3184.5	1.6 North	2.05	Power Pole	Nov 18	N
		3342	333352.9	6243463.5	20.3	66.6	12.9	7.4	TREE	3191.1	22.6 South	2.50	Tree	Nov 18	N
		3343	333334.3	6243449.6	17.7	58.1	12.6	5.1	SPIRE	3169.1	30.6 South	2.13	Power Pole	Nov 18	N
		3344	333341.3	6243431.5	18.6	61.0	12.6	5.9	TREE	3170.7	49.9 South	2.28	Palm Tree	Nov 18	N
		3345	333383.8	6243497.2	19.6	64.3	13.3	6.2	TREE	3230.3	0.7 North	2.22	Palm Tree	Nov 18	N
		3346	333406.2	6243489.8	21.1	69.2	13.6	7.5	TREE	3249.6	12.8 South	2.40	Palm Tree	Nov 18	N
		3347	333416.0	6243637.5	21.0	68.9	14.2	6.8	ANTEN	3301.8	125.6 North	2.20	Aerial atop block of flats	Nov 18	N
75	79	3348	333456.3	6243617.3	25.6	84.0	14.6	11.0	TREE	3334.5	94.7 North	2.74	Tree	Nov 18	N
106	110	3350	333866.4	6243628.3	28.6	93.8	19.3	9.3	TREE	3730.3	13.4 South	2.04	Tree	Nov 18	N
105	109	3351	333875.4	6243594.6	29.3	96.1	19.3	10.0	TREE	3729.1	48.3 South	2.10	Tree	Nov 18	N
27	25	3668	333115.1	6243416.6	16.6	54.5	10.0	6.6	MOVG	2949.8	1.3 North	3.20	Port Botany Rail (plus 5.3m)	Nov 16	N
28	30	3791	333128.7	6243402.4	16.7	54.8	10.1	6.6	MOVG	2958.7	16.2 South	3.15	Port Botany Rail (plus 5.3m)	Nov 16	N
		3866	336675.3	6244890.6	68.7	225.4	56.0	12.7	TREE	6784.2	382.2 North	1.50	Tree	Nov 18	N
		3868	336605.6	6244869.2	63.6	208.7	55.1	8.5	TREE	6711.4	381.8 North	1.41	Tree	May 16	N
		3870	336647.1	6244848.3	64.7	212.3	55.5	9.2	TREE	6745.0	349.8 North	1.42	Tree	Nov 18	N
		3872	336753.8	6244962.4	67.9	222.8	57.1	10.8	TREE	6880.1	428.2 North	1.45	Tree	May 16	N
33	36	3879	333167.1	6243370.4	16.6	54.5	10.4	6.2	MOVG	2986.2	57.9 South	2.89	Port Botany Rail (plus 5.3m)	Nov 16	N
37	43	3881	333210.5	6243345.9	16.7	54.8	10.8	5.9	MOVG	3020.7	94 South	2.67	Port Botany Rail (plus 5.3m)	Nov 16	N
		3883	333257.1	6243327.8	16.9	55.4	11.3	5.6	MOVG	3060.1	124.8 South	2.47	Port Botany Rail (plus 5.3m)	Nov 16	N
		3885	333300.3	6243315.4	17.0	55.8	11.7	5.2	MOVG	3097.8	149.2 South	2.30	Port Botany Rail (plus 5.3m)	Nov 16	N
		3936	336622.3	6245102.3	71.2	233.6	56.1	15.1	BLDG	6794.8	600.2 North	1.56	Building	May 16	N
		3938	336606.9	6245024.5	65.1	213.6	55.7	9.5	BLDG	6757.5	530.2 North	1.43	Building	May 16	N
		3939	332838.6	6243286.4	6.5	21.3	6.3	0.1	BLDG	2647.5	43.3 South	1.66	Frangible PVC marker	Nov 18	Y
		3968	333010.6	6243285.8	12.0	39.4	8.3	3.7	TREE	2812.0	93.7 South	3.12	Tree	Nov 18	Y
35	40	3969	333140.4	6243543.1	17.8	58.4	10.7	7.1	TREE	3010.7	115 North	3.01	Tree	Nov 18	N
22	21	3973	333044.0	6243525.9	14.8	48.6	9.5	5.2	MOVG	2913.4	126.5 North	2.99	Port Botany Rail (plus 5.3m)	Nov 16	N
23	23	3974	333067.8	6243472.3	15.5	50.9	9.6	5.9	MOVG	2920.7	68.3 North	3.16	Port Botany Rail (plus 5.3m)	Nov 16	N
87	91	3976	333658.1	6243496.7	31.5	103.3	16.5	15.0	TREE	3492.8	79.2 South	2.92	Tree	Nov 18	N

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					MGA94										
					metres	(feet)									
		4408	332884.3	6243409.0	7.3	24.0	7.3	0.0	BLDG	2726.7	60.8 North	1.25	Comms Hut	Nov 18	Y
19	18	4412	332997.0	6243340.1	13.4	44.0	8.3	5.0	TREE	2814.6	37.8 South	3.78	Tree	Jan 19	Y
		4414	333014.0	6243272.5	12.2	40.0	8.3	3.9	TREE	2811.3	107.4 South	3.23	Tree	Nov 18	Y
		4420	333010.5	6243408.4	11.8	38.7	8.7	3.1	TREE	2847.4	23.7 North	2.55	Tree	Nov 18	Y
31	34	4430	333119.3	6243505.1	17.8	58.4	10.3	7.5	TREE	2979.4	84.8 North	3.28	Tree	Nov 18	N
15		4468	332950.9	6243399.9	11.0	36.1	8.0	3.0	TREE	2787.8	32.8 North	2.97	Shrub	Nov 18	Y
32	35	4469	333118.1	6243521.1	17.5	57.4	10.4	7.2	TREE	2983.0	100.5 North	3.18	Tree	Nov 18	N
	28	4471	333128.0	6243380.3	14.6	47.9	10.0	4.6	SPIRE	2951.6	37.1 South	2.58	Light pole	Nov 18	N
		4474	333146.2	6243336.5	13.7	44.9	10.1	3.6	SPIRE	2956.4	84.4 South	2.27	Light pole	Nov 18	N
		4475	333243.5	6243412.1	16.9	55.4	11.4	5.5	BLDG	3071.4	40.1 South	2.42	Vent on building	Nov 18	N
		4476	333222.1	6243380.0	16.4	53.8	11.1	5.3	TREE	3041.6	64.7 South	2.45	Palm Tree	Nov 18	N
		4480	333224.2	6243377.7	15.9	52.2	11.1	4.9	TREE	3043.1	67.5 South	2.35	Palm Tree	Nov 18	N
		4481	333708.5	6243596.3	25.4	83.3	17.4	8.0	TREE	3569.9	1.6 North	2.04	Norfolk Pine Tree	Nov 18	N
92	97	4482	333685.4	6243666.2	27.6	90.6	17.4	10.2	TREE	3568.0	75.2 North	2.28	Tree	Nov 18	N
102	105	4483	333802.0	6243565.8	28.1	92.2	18.4	9.7	TREE	3650.5	54.6 South	2.14	Tree	Nov 18	N
	42	4489	333188.9	6243396.9	16.1	52.8	10.8	5.3	TREE	3014.8	38.9 South	2.55	Tree	Nov 18	N
		4490	333229.4	6243607.2	17.0	55.8	11.9	5.0	BLDG	3114.4	150.7 North	2.22	Air conditioning unit atop building	Nov 18	N
4		4606	332920.9	6243264.0	7.9	25.9	7.2	0.7	SPIRE	2719.8	88.6 South	1.89	Sign	Nov 18	Y
		4607	332940.9	6243353.1	9.1	29.9	7.7	1.4	SPIRE	2764.7	9.1 South	2.15	Light Pole	Nov 18	Y
		4608	332976.0	6243262.2	9.0	29.5	7.8	1.2	SPIRE	2772.0	106.3 South	1.97	Light Pole	Nov 18	N
		4609	332959.1	6243262.2	8.5	27.9	7.6	0.9	SPIRE	2755.8	101.4 South	1.85	Light Pole	Nov 18	Y
		4610	332956.2	6243316.5	9.1	29.9	7.8	1.3	SPIRE	2768.7	48.5 South	2.08	Traffic sign	Nov 18	Y
		4611	332952.6	6243479.0	9.6	31.5	8.3	1.3	SPIRE	2812.3	108.1 North	1.87	Light Pole	Nov 18	Y
		4612	332975.9	6243372.2	9.7	31.8	8.2	1.5	SPIRE	2803.7	1 South	1.99	Light Pole	Nov 18	N
		4613	332955.6	6243372.1	9.1	29.9	8.0	1.2	SPIRE	2784.2	4.9 North	1.90	Light Pole	Nov 18	Y
		4614	332991.8	6243373.0	11.0	36.1	8.4	2.6	SPIRE	2819.2	4.8 South	2.50	Sign	Nov 18	N
		4615	332955.8	6243350.2	9.1	29.9	7.9	1.2	SPIRE	2778.1	16.2 South	1.97	Light Pole	Nov 18	Y
		4616	332955.9	6243339.2	9.1	29.9	7.9	1.2	SPIRE	2775.0	26.7 South	1.97	Light Pole	Nov 18	Y
		4617	332956.0	6243328.2	9.1	29.9	7.8	1.2	SPIRE	2771.9	37.3 South	2.01	Light Pole	Nov 18	Y
		4618	332956.3	6243317.2	9.0	29.5	7.8	1.2	SPIRE	2769.0	47.9 South	2.02	Light Pole	Nov 18	Y
		4619	332956.8	6243306.1	9.0	29.5	7.8	1.2	SPIRE	2766.3	58.7 South	2.02	Light Pole	Nov 18	Y
		4620	332957.6	6243294.6	8.8	28.9	7.7	1.0	SPIRE	2763.8	69.9 South	1.92	Light Pole	Nov 18	Y
		4621	332958.4	6243284.2	8.6	28.2	7.7	0.8	SPIRE	2761.5	80.1 South	1.79	Light Pole	Nov 18	Y
		4622	332975.7	6243284.2	9.0	29.5	7.9	1.1	SPIRE	2778.0	85.1 South	1.92	Light Pole	Nov 18	N
		4623	332958.9	6243273.4	8.5	27.9	7.7	0.8	SPIRE	2758.9	90.6 South	1.80	Light Pole	Nov 18	Y
		4624	332975.7	6243273.2	9.1	29.9	7.9	1.2	SPIRE	2774.9	95.7 South	1.97	Light Pole	Nov 18	N
		4625	332952.9	6243474.0	9.6	31.5	8.3	1.3	BLDG	2811.2	103.2 North	1.86	Pole	Nov 18	Y
		4626	332953.5	6243469.3	9.6	31.5	8.3	1.3	SPIRE	2810.4	98.6 North	1.89	Light Pole	Nov 18	Y
		4627	332954.1	6243459.4	9.7	31.8	8.3	1.4	SPIRE	2808.1	88.8 North	1.95	Light Pole	Nov 18	Y

\*

Chart No. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)									
		4628	332954.5	6243448.8	9.7	31.8	8.2	1.4	SPIRE	2805.4	78.6 North	1.98	Light Pole	Nov 18	Y
		4629	332955.0	6243437.0	9.5	31.2	8.2	1.3	SPIRE	2802.5	67.1 North	1.90	Light Pole	Nov 18	Y
		4630	332955.3	6243436.3	9.3	30.5	8.2	1.1	SPIRE	2802.5	66.4 North	1.78	Sign	Nov 18	Y
		4631	332953.8	6243427.3	9.2	30.2	8.2	1.1	SPIRE	2798.5	58.2 North	1.79	Light Pole	Nov 18	Y
		4632	332954.1	6243416.1	9.3	30.5	8.1	1.2	SPIRE	2795.5	47.5 North	1.87	Light Pole	Nov 18	Y
		4633	332976.3	6243416.2	9.8	32.2	8.4	1.4	SPIRE	2816.9	41.1 North	1.91	Light Pole	Nov 18	N
		4634	332954.1	6243394.1	9.1	29.9	8.0	1.0	SPIRE	2789.2	26.3 North	1.80	Light Pole	Nov 18	Y
		4635	332976.2	6243405.1	9.7	31.8	8.3	1.4	SPIRE	2813.6	30.5 North	1.92	Light Pole	Nov 18	N
		4636	332976.1	6243394.2	9.7	31.8	8.3	1.4	SPIRE	2810.3	20 North	1.94	Light Pole	Nov 18	N
		4637	332955.5	6243383.2	9.1	29.9	8.0	1.1	SPIRE	2787.4	15.5 North	1.87	Light Pole	Nov 18	Y
		4638	332976.0	6243383.2	9.7	31.8	8.3	1.4	SPIRE	2807.0	9.5 North	1.97	Light Pole	Nov 18	N
		4639	332955.3	6243377.3	9.2	30.2	8.0	1.2	SPIRE	2785.5	9.9 North	1.93	Sign	Nov 18	Y
		4640	332955.7	6243361.2	9.1	29.9	7.9	1.2	SPIRE	2781.2	5.6 South	1.92	Light Pole	Nov 18	Y
		4641	332975.9	6243361.2	9.5	31.2	8.2	1.3	SPIRE	2800.6	11.5 South	1.90	Light Pole	Nov 18	N
		4642	332975.9	6243350.3	9.4	30.8	8.1	1.3	SPIRE	2797.4	21.9 South	1.92	Light Pole	Nov 18	N
		4643	332994.7	6243350.5	9.7	31.8	8.4	1.4	SPIRE	2815.5	27.2 South	1.91	Light Pole	Nov 18	N
16		4644	332975.8	6243339.3	9.4	30.8	8.1	1.3	SPIRE	2794.1	32.4 South	1.94	Light Pole	Nov 18	N
		4645	332994.8	6243339.5	9.6	31.5	8.3	1.3	SPIRE	2812.3	37.7 South	1.89	Light Pole	Nov 18	N
		4646	332975.8	6243328.1	9.3	30.5	8.1	1.3	SPIRE	2790.8	43.1 South	1.95	Light Pole	Nov 18	N
14		4647	332975.7	6243317.2	9.4	30.8	8.0	1.3	SPIRE	2787.6	53.5 South	1.99	Light Pole	Nov 18	N
		4648	332995.2	6243317.6	9.5	31.2	8.3	1.2	SPIRE	2806.5	58.7 South	1.85	Light Pole	Nov 18	N
		4649	332975.7	6243306.3	9.1	29.9	8.0	1.1	SPIRE	2784.5	64 South	1.89	Light Pole	Nov 18	N
		4650	332995.3	6243306.3	9.5	31.2	8.2	1.2	SPIRE	2803.3	69.6 South	1.88	Light Pole	Nov 18	N
		4651	332975.7	6243295.2	9.1	29.9	7.9	1.2	SPIRE	2781.2	74.6 South	1.92	Light Pole	Nov 18	N
		4652	332995.5	6243295.5	9.5	31.2	8.2	1.3	SPIRE	2800.3	80 South	1.91	Light Pole	Nov 18	N
		4653	332995.6	6243284.5	9.5	31.2	8.1	1.3	SPIRE	2797.3	90.5 South	1.94	Light Pole	Nov 18	N
17		4654	332996.0	6243273.5	9.4	30.8	8.1	1.3	SPIRE	2794.4	101.2 South	1.96	Light Pole	Nov 18	N
		4655	332992.9	6243485.0	10.6	34.8	8.8	1.8	SPIRE	2852.6	102.1 North	1.96	Sign	Nov 18	Y
		4656	332993.5	6243473.1	10.4	34.1	8.8	1.7	SPIRE	2849.8	90.6 North	1.93	Sign	Nov 18	Y
		4657	332986.9	6243468.0	10.5	34.4	8.7	1.8	SPIRE	2841.9	87.6 North	2.01	Sign	Nov 18	N
		4658	332975.1	6243458.4	10.1	33.1	8.5	1.6	SPIRE	2827.9	81.8 North	1.99	Sign	Nov 18	N
		4660	332975.0	6243457.3	10.0	32.8	8.5	1.5	SPIRE	2827.5	80.8 North	1.91	Light Pole	Nov 18	N
		4661	332975.5	6243448.3	10.0	32.8	8.5	1.5	SPIRE	2825.3	72 North	1.95	Light Pole	Nov 18	N
		4662	332976.0	6243438.4	10.0	32.8	8.4	1.6	SPIRE	2823.0	62.4 North	1.97	Light Pole	Nov 18	N
		4664	332991.8	6243438.7	10.3	33.8	8.6	1.7	SPIRE	2838.2	58.2 North	1.96	Light Pole	Nov 18	N
		4666	332976.3	6243427.2	9.8	32.2	8.4	1.4	SPIRE	2820.0	51.6 North	1.89	Light Pole	Nov 18	N
		4668	332991.9	6243427.5	10.3	33.8	8.6	1.7	SPIRE	2835.1	47.3 North	1.97	Light Pole	Nov 18	N
		4670	332992.0	6243416.6	10.2	33.5	8.6	1.6	SPIRE	2832.0	36.9 North	1.97	Light Pole	Nov 18	N
		4672	332993.7	6243383.5	9.9	32.5	8.5	1.5	SPIRE	2824.0	4.7 North	1.91	Light Pole	Nov 18	N

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					MGA94										
					metres	(feet)	metres	metres		metres	(%)				
		4674	332994.1	6243370.8	9.8	32.2	8.4	1.4	SPIRE	2820.7	7.5 South	1.89	Light Pole	Nov 18	N
		4676	332994.3	6243361.4	9.8	32.2	8.4	1.4	SPIRE	2818.3	16.6 South	1.90	Light Pole	Nov 18	N
		4678	332994.9	6243328.6	9.6	31.5	8.3	1.3	SPIRE	2809.3	48.2 South	1.87	Light Pole	Nov 18	N
21		4679	333045.0	6243370.3	13.2	43.3	9.0	4.2	TREE	2869.3	22.7 South	2.87	Tree	Nov 18	Y
		4681	333055.8	6243510.8	11.9	39.0	9.6	2.3	BLDG	2920.3	108.6 North	1.96	Railway Bridge	Nov 18	N
25		4682	333067.7	6243488.2	15.2	49.9	9.7	5.5	SPIRE	2925.1	83.5 North	3.01	Pole	Nov 18	N
		4684	332992.8	6243405.5	10.1	33.1	8.5	1.6	SPIRE	2829.5	26.1 North	1.96	Light Pole	Nov 18	N
		4686	332993.0	6243394.5	10.0	32.8	8.5	1.5	SPIRE	2826.5	15.5 North	1.95	Light Pole	Nov 18	N
124		4744	337089.7	6244972.8	96.1	315.3	61.0	35.1	BLDG	7204.7	341 North	1.96	CRANE (Lit)	Jan 19	N
		4746	337118.0	6245160.4	90.3	296.3	62.0	28.3	BLDG	7286.0	512.3 North	1.81	CRANE	Jan 19	N
		4748	337105.0	6245035.3	85.2	279.5	61.4	23.8	BLDG	7237.4	396.4 North	1.72	CRANE	Jan 19	N
		4749	332996.5	6243462.3	11.1	36.4	8.8	2.3	SPIRE	2849.5	79.4 North	2.19	Traffic lights	Nov 18	Y
		4750	332989.9	6243452.9	10.9	35.8	8.7	2.2	SPIRE	2840.5	72.3 North	2.21	Traffic lights	Nov 18	N
		4751	333011.2	6243372.2	11.8	38.7	8.6	3.2	TREE	2837.5	11.2 South	2.67	Tree	Nov 18	Y
		4752	333097.8	6243421.6	13.3	43.6	9.8	3.5	TREE	2934.7	11.1 North	2.31	Tree	Nov 18	N
		4753	333112.2	6243466.6	15.2	49.9	10.1	5.1	SPIRE	2961.5	50 North	2.69	Light Pole	Nov 18	N
		4755	333185.5	6243367.0	16.1	52.8	10.6	5.5	TREE	3002.8	66.5 South	2.63	Tree	Nov 18	N
41		4762	333194.9	6243570.2	19.4	63.6	11.4	7.9	TREE	3070.6	125.2 North	2.96	Tree	Nov 18	N
42		4763	333199.1	6243560.4	19.1	62.7	11.4	7.7	TREE	3071.8	114.7 North	2.90	Tree	Nov 18	N
		4782	333388.9	6243448.0	20.6	67.6	13.2	7.4	TREE	3221.0	47.9 South	2.43	Tree	Nov 18	N
		4829	334280.9	6243484.6	31.4	103.0	23.6	7.8	TREE	4085.4	270.9 South	1.73	Tree	Oct 18	N
		4830	337129.8	6245229.9	76.9	252.3	62.4	14.5	BLDG	7317.4	575.4 North	1.51	Vent atop building	Oct 18	N
		4831	337974.6	6244974.4	96.6	316.9	71.2	25.4	TREE	8052.2	86.4 North	1.67	Tree	Jan 19	N
1	1	8867	332807.7	6243293.6	6.1	20.0	6.0	0.1	SPIRE	2620.0	27.5 South	449.78	Gable Marker	Nov 18	Y
47	51	9429	333277.5	6243351.2	22.1	72.5	11.6	10.5	TREE	3086.4	108.3 South	3.45	Tree	Nov 18	N
48	52	9430	333286.6	6243347.4	23.3	76.4	11.7	11.6	TREE	3093.9	114.5 South	3.65	Tree	Nov 18	N
60	64	9431	333373.4	6243387.1	29.1	95.5	12.8	16.3	TREE	3188.6	101.7 South	4.06	Tree	Jan 19	N
		9433	333144.5	6243466.0	12.6	41.3	10.5	2.1	BLDG	2992.3	40.1 North	1.77	Building	Nov 16	N
		9498	334585.9	6243771.8	36.4	119.4	28.1	8.3	TREE	4460.5	84.2 South	1.65	Norfolk Pine	Nov 18	N
107	111	9499	333867.9	6243747.4	29.5	96.8	19.8	9.8	TREE	3766.1	100.1 North	2.05	Gum	Nov 18	N
109	113	9500	333910.2	6243639.0	29.4	96.5	19.9	9.6	TREE	3775.3	15.9 South	2.03	TREE	Nov 18	N
	136	9502	338039.4	6245004.0	99.2	325.5	72.0	27.1	TREE	8122.8	96 North	1.69	Gum Tree	Jan 19	N
90	95	9504	333701.9	6243528.1	32.4	106.3	17.1	15.3	TREE	3543.8	61.8 South	2.86	TREE	Nov 18	N
115		9506	334026.7	6243625.9	30.9	101.4	21.2	9.7	TREE	3883.0	62.1 South	1.97	GUM	Nov 18	N
70	74	9510	333456.8	6243448.8	29.5	96.8	14.0	15.5	TREE	3286.2	66.8 South	3.53	TREE	Nov 18	N
78	82	9511	333471.0	6243639.8	27.0	88.6	14.8	12.2	TREE	3355.0	112 North	2.86	TREE	Nov 18	N
83	87	9512	333526.5	6243723.6	28.7	94.2	15.8	12.9	TREE	3432.4	176.1 North	2.79	TREE	Nov 18	N
79	83	9513	333536.7	6243460.5	28.7	94.2	15.0	13.8	TREE	3366.1	78.7 South	3.05	Gum Tree	Nov 18	N
		9524	333541.5	6243585.5	22.3	73.2	15.5	6.8	TREE	3406.9	39.6 North	2.06	TREE	Nov 18	N

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					MGA94										
					metres	(feet)									
80	84	9525	333545.7	6243577.3	25.0	82.0	15.5	9.5	TREE	3408.5	30.6 North	2.41	TREE	Nov 18	N
		9526	333554.0	6243559.5	23.0	75.5	15.5	7.5	TREE	3411.3	11.1 North	2.15	TREE	Nov 18	N
76	80	9527	333507.2	6243454.1	29.4	96.5	14.6	14.8	TREE	3336.0	76.2 South	3.27	Gum Tree	Nov 18	N
82	86	9528	333599.5	6243479.1	29.3	96.1	15.8	13.5	TREE	3431.6	79 South	2.86	Gum Tree	Nov 18	N
104	108	9531	333869.8	6243563.1	27.3	89.6	19.1	8.2	TREE	3714.6	76.8 South	1.95	TREE	Dec 15	N
		9546	333301.3	6243617.8	20.5	67.3	12.8	7.7	SPIRE	3186.2	140.1 North	2.57	SEWERAGE VENT	Nov 18	N
		9547	333269.9	6243601.5	20.4	66.9	12.4	8.0	TREE	3151.5	133.5 North	2.71	Gum Tree	Nov 18	N
74	78	9549	333421.5	6243621.0	23.8	78.1	14.2	9.6	TREE	3302.3	108.3 North	2.60	TREE	Nov 18	N
30	31	9566	333148.3	6243352.1	16.8	55.1	10.1	6.6	TREE	2962.9	70 South	3.14	TREE	Nov 18	N
39	45	9570	333231.4	6243319.3	19.4	63.6	11.0	8.4	TREE	3033.1	125.5 South	3.23	TREE	Nov 18	N
36	41	9571	333212.3	6243305.3	18.8	61.7	10.7	8.1	TREE	3010.7	133.3 South	3.27	TREE	Nov 18	N
120	125	9576	334190.8	6243973.6	33.5	109.9	24.3	9.3	TREE	4140.7	223.2 North	1.81	Norfolk Pine	Nov 18	N
		9579	334310.1	6243993.3	30.4	99.7	25.7	4.7	TREE	4260.6	207.6 North	1.49	Gum Tree	Nov 18	N
		9580	334351.9	6244039.6	32.5	106.6	26.3	6.1	TREE	4314.0	239.7 North	1.56	Norfolk Pine	Nov 18	N
		9584	334340.9	6243874.3	29.3	96.1	25.6	3.7	TREE	4255.6	84.7 North	1.43	TREE	Nov 18	N
		9585	334261.4	6243853.6	31.5	103.3	24.7	6.8	TREE	4173.5	88 North	1.64	Gum	Nov 18	N
118	123	9586	334032.5	6243724.7	32.1	105.3	21.6	10.5	TREE	3917.1	30.8 North	2.01	TREE	Nov 18	N
116	121	9587	334041.3	6243586.0	36.4	119.4	21.2	15.2	TREE	3885.4	104.5 South	2.40	Gum	Nov 18	N
114	120	9588	334049.4	6243519.0	32.2	105.6	21.1	11.1	TREE	3873.7	171 South	2.09	TREE	Nov 18	N
117	122	9589	334092.5	6243519.9	34.0	111.5	21.6	12.5	TREE	3915.3	182.6 South	2.16	TREE	Nov 18	N
		9590	334320.9	6243563.2	30.1	98.8	24.3	5.8	TREE	4146.4	207.3 South	1.58	TREE	Nov 18	N
		9592	334393.2	6243790.9	28.7	94.2	26.0	2.7	TREE	4281.6	10.2 South	1.37	Gum	Dec 15	N

\* Obstacle penetrates <0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA  
AERONAUTICAL INFORMATION PUBLICATION  
AERODROME OBSTACLE CHART (DECEMBER 2018)  
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)  
( 07 TAKE OFF )

**(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)**

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 190130.red

Mid-point of origin		Runway Bearing	Height at		Runway Length	Chainage at Origin	Height at Origin	
Easting	Northing		Chainage 00				(m)	(ft)
(MGA94)	(MGA94)	(Deg Min Sec)	(m) (ft)		(metres)	(metres)		
332799.696	6243319.910	73° 10' 55"	4.896 (16.1)		2529.9	2619.9	6.012	(19.7)

**EXPLANATION OF SPECIFIC TERMS**

<b>Chart No.</b>	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting <u>only</u> the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
<b>Reference Number</b>	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
<b>Type of Obstacle</b>	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
<b>Description</b>	General description of the respective obstacle.

Chart No. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)									
1	1	8867	332807.7	6243293.6	6.1	20.0	6.0	0.1	SPIRE	2620.0	27.5 South	449.78	Gable Marker	Nov 18	Y
2	2	1258	332806.3	6243321.8	7.5	24.6	6.1	1.4	SPIRE	2626.8	0.1 South	21.49	RWY07 Localiser Monitoring point	Jan 19	Y
3	3	470	332865.6	6243425.9	7.6	24.9	7.1	0.5	BLDG	2713.7	82.4 North	1.73	Eastern Lighting Equipment Rood (ELER)	Nov 18	Y
4		4606	332920.9	6243264.0	7.9	25.9	7.2	0.7	SPIRE	2719.8	88.6 South	1.89	Sign	Nov 18	Y
5	5	99	332897.7	6243369.3	7.9	25.9	7.3	0.6	SPIRE	2728.1	18.9 North	1.73	Obstruction Light (Lit 1/1)	Nov 18	Y
6	6	101	332908.9	6243332.5	7.9	25.9	7.3	0.6	SPIRE	2728.1	19.5 South	1.72	Obstruction Light (Lit 1/1)	Nov 18	Y
7	7	729	332926.0	6243276.7	8.4	27.6	7.3	1.1	MOVG	2728.3	77.9 South	2.23	Perimeter Road Crown (plus 3.6m)	Nov 16	Y
8	8	60	332922.3	6243290.9	8.0	26.2	7.3	0.7	LINES	2728.9	63.2 South	1.87	Blast Deflector S end	Nov 18	Y
9	9	102	332942.6	6243263.4	9.1	29.9	7.5	1.7	SPIRE	2740.4	95.5 South	2.58	Light Pole	Nov 18	Y
10	10	1725	332899.8	6243411.4	9.4	30.8	7.5	1.9	ANTEN	2742.2	58.6 North	2.77	Aerial	Nov 18	Y
11	11	1776	332901.7	6243411.5	9.4	30.8	7.5	1.9	ANTEN	2744.1	58.2 North	2.73	Aerial	Nov 18	Y
12	12	855	332963.2	6243268.3	10.6	34.8	7.7	2.9	MOVG	2761.5	96.7 South	3.23	Road (West Edge) (plus 4.6m)	Nov 16	N
13		849	332962.3	6243351.2	10.7	35.1	8.0	2.8	MOVG	2784.6	17.1 South	2.87	Road (West Edge) (plus 4.6m)	Nov 16	N
14		4647	332975.7	6243317.2	9.4	30.8	8.0	1.3	SPIRE	2787.6	53.5 South	1.99	Light Pole	Nov 18	N
15		4468	332950.9	6243399.9	11.0	36.1	8.0	3.0	TREE	2787.8	32.8 North	2.97	Shrub	Nov 18	Y
16		4644	332975.8	6243339.3	9.4	30.8	8.1	1.3	SPIRE	2794.1	32.4 South	1.94	Light Pole	Nov 18	N
17		4654	332996.0	6243273.5	9.4	30.8	8.1	1.3	SPIRE	2794.4	101.2 South	1.96	Light Pole	Nov 18	N
18		947	332992.9	6243285.9	12.3	40.4	8.1	4.2	SPIRE	2795.0	88.4 South	3.58	Light pole (lit)	Nov 18	N
19	18	4412	332997.0	6243340.1	13.4	44.0	8.3	5.0	TREE	2814.6	37.8 South	3.78	Tree	Jan 19	Y
20	20	168	332997.8	6243360.2	13.8	45.3	8.4	5.4	TREE	2821.2	18.8 South	3.89	Tree Group	Jan 19	Y
21		4679	333045.0	6243370.3	13.2	43.3	9.0	4.2	TREE	2869.3	22.7 South	2.87	Tree	Nov 18	Y
22	21	3973	333044.0	6243525.9	14.8	48.6	9.5	5.2	MOVG	2913.4	126.5 North	2.99	Port Botany Rail (plus 5.3m)	Nov 16	N
23	23	3974	333067.8	6243472.3	15.5	50.9	9.6	5.9	MOVG	2920.7	68.3 North	3.16	Port Botany Rail (plus 5.3m)	Nov 16	N
24		113	333125.3	6243297.3	14.3	46.9	9.7	4.6	SPIRE	2925.1	115.8 South	2.71	Light Pole	Nov 18	N
25		4682	333067.7	6243488.2	15.2	49.9	9.7	5.5	SPIRE	2925.1	83.5 North	3.01	Pole	Nov 18	N
26		115	333129.2	6243326.6	15.6	51.2	9.8	5.7	SPIRE	2937.3	88.9 South	3.01	Light Pole	Nov 18	N
27	25	3668	333115.1	6243416.6	16.6	54.5	10.0	6.6	MOVG	2949.8	1.3 North	3.20	Port Botany Rail (plus 5.3m)	Nov 16	N
28	30	3791	333128.7	6243402.4	16.7	54.8	10.1	6.6	MOVG	2958.7	16.2 South	3.15	Port Botany Rail (plus 5.3m)	Nov 16	N
29	32	3326	333162.0	6243301.1	20.4	66.9	10.1	10.3	TREE	2961.3	122.9 South	4.21	Tree	Jan 19	N
30	31	9566	333148.3	6243352.1	16.8	55.1	10.1	6.6	TREE	2962.9	70 South	3.14	TREE	Nov 18	N
31	34	4430	333119.3	6243505.1	17.8	58.4	10.3	7.5	TREE	2979.4	84.8 North	3.28	Tree	Nov 18	N
32	35	4469	333118.1	6243521.1	17.5	57.4	10.4	7.2	TREE	2983.0	100.5 North	3.18	Tree	Nov 18	N
33	36	3879	333167.1	6243370.4	16.6	54.5	10.4	6.2	MOVG	2986.2	57.9 South	2.89	Port Botany Rail (plus 5.3m)	Nov 16	N
34	37	2955	333197.9	6243297.8	18.8	61.7	10.5	8.2	TREE	2994.8	136.4 South	3.40	Tree	Nov 18	N
35	40	3969	333140.4	6243543.1	17.8	58.4	10.7	7.1	TREE	3010.7	115 North	3.01	Tree	Nov 18	N
36	41	9571	333212.3	6243305.3	18.8	61.7	10.7	8.1	TREE	3010.7	133.3 South	3.27	TREE	Nov 18	N
37	43	3881	333210.5	6243345.9	16.7	54.8	10.8	5.9	MOVG	3020.7	94 South	2.67	Port Botany Rail (plus 5.3m)	Nov 16	N
38	44	125	333225.4	6243305.9	16.7	54.8	10.9	5.8	SPIRE	3023.4	136.6 South	2.65	Light Pole	Nov 18	N
39	45	9570	333231.4	6243319.3	19.4	63.6	11.0	8.4	TREE	3033.1	125.5 South	3.23	TREE	Nov 18	N

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					MGA94										
					metres	(feet)									
40	46	3332	333240.5	6243343.3	19.6	64.3	11.2	8.4	TREE	3048.7	105.2 South	3.16	Tree	Nov 18	N
41		4762	333194.9	6243570.2	19.4	63.6	11.4	7.9	TREE	3070.6	125.2 North	2.96	Tree	Nov 18	N
42		4763	333199.1	6243560.4	19.1	62.7	11.4	7.7	TREE	3071.8	114.7 North	2.90	Tree	Nov 18	N
43	47	3334	333193.8	6243580.9	19.4	63.6	11.4	7.9	TREE	3072.7	135.8 North	2.96	Tree	Nov 18	N
44	48	3335	333260.8	6243360.6	19.6	64.3	11.4	8.2	TREE	3073.1	94.5 South	3.00	Tree	Nov 18	N
45	49	867	333208.2	6243539.5	17.6	57.7	11.5	6.1	BLDG	3074.5	92 North	2.55	SW cnr Conc Building	Nov 18	N
46	50	137	333273.4	6243340.3	20.8	68.2	11.5	9.3	TREE	3079.3	117.5 South	3.22	Gum Tree	Nov 18	N
47	51	9429	333277.5	6243351.2	22.1	72.5	11.6	10.5	TREE	3086.4	108.3 South	3.45	Tree	Nov 18	N
48	52	9430	333286.6	6243347.4	23.3	76.4	11.7	11.6	TREE	3093.9	114.5 South	3.65	Tree	Nov 18	N
49	53	884	333285.2	6243392.8	18.8	61.7	11.8	6.9	TREE	3105.8	70.8 South	2.63	Gum Tree	Nov 18	N
50	54	1162	333258.9	6243506.1	19.0	62.3	11.9	7.1	TREE	3113.3	45.4 North	2.63	Gum Tree	Nov 18	N
51	55	39	333280.4	6243435.9	20.0	65.6	11.9	8.1	SPIRE	3113.7	28.1 South	2.83	Sewer Vent	Nov 18	N
52	56	3339	333259.6	6243541.9	21.6	70.9	12.1	9.6	TREE	3124.4	79.4 North	3.10	Tree	Nov 18	N
53	57	3112	333245.7	6243592.8	22.8	74.8	12.1	10.7	TREE	3125.8	132.1 North	3.31	Tree	Nov 18	N
54	58	3340	333259.3	6243553.6	21.0	68.9	12.1	8.9	TREE	3127.5	90.7 North	2.95	Tree	Nov 18	N
55	59	812	333323.2	6243357.7	23.9	78.4	12.2	11.7	TREE	3132.0	115.3 South	3.49	Row of Sheoaks	Nov 18	N
56	60	824	333328.8	6243360.5	23.9	78.4	12.2	11.7	TREE	3138.2	114.2 South	3.45	Row of Sheoaks	Nov 18	N
57	61	3185	333282.5	6243513.8	22.2	72.8	12.2	10.0	TREE	3138.2	45.9 North	3.12	Tree	Nov 18	N
58	62	826	333340.4	6243363.8	23.2	76.1	12.4	10.9	TREE	3150.2	114.4 South	3.25	Row of Sheoaks	Nov 18	N
59	63	828	333360.1	6243379.3	23.7	77.8	12.7	11.0	TREE	3173.6	105.3 South	3.19	Gum Tree	Nov 18	N
60	64	9431	333373.4	6243387.1	29.1	95.5	12.8	16.3	TREE	3188.6	101.7 South	4.06	Tree	Jan 19	N
61	65	343	333366.4	6243412.7	25.4	83.3	12.8	12.6	TREE	3189.2	75.1 South	3.41	Gum Tree	Nov 18	N
62	66	830	333379.3	6243389.9	28.4	93.2	12.9	15.5	TREE	3195.0	100.7 South	3.90	Gum Tree	Jan 19	N
63	67	2890	333390.0	6243391.0	28.7	94.2	13.0	15.7	TREE	3205.6	102.7 South	3.88	Tree	Jan 19	N
64	68	838	333397.2	6243410.3	25.3	83.0	13.2	12.1	TREE	3218.0	86.4 South	3.23	Gum Tree	Nov 18	N
65	69	834	333405.5	6243408.6	28.4	93.2	13.3	15.1	TREE	3225.5	90.4 South	3.70	Gum Tree	Jan 19	N
66	70	836	333410.6	6243414.2	29.3	96.1	13.4	15.9	TREE	3231.9	86.5 South	3.80	Gum Tree	Jan 19	N
67	71	842	333423.8	6243433.3	30.4	99.7	13.6	16.9	TREE	3250.1	72 South	3.87	Gum Tree	Jan 19	N
68	72	780	333362.4	6243654.2	26.3	86.3	13.6	12.7	TREE	3255.3	157.2 North	3.20	Gum Tree	Nov 18	N
69	73	1739	333464.3	6243367.4	27.2	89.2	13.8	13.4	TREE	3269.9	146.9 South	3.26	Tree	Nov 18	N
70	74	9510	333456.8	6243448.8	29.5	96.8	14.0	15.5	TREE	3286.2	66.8 South	3.53	TREE	Nov 18	N
71	75	3114	333406.6	6243648.4	25.1	82.3	14.1	11.0	TREE	3295.9	138.9 North	2.83	Norfolk Pine Tree	Nov 18	N
72	76	2941	333470.5	6243441.9	30.7	100.7	14.1	16.5	TREE	3297.4	77.3 South	3.64	Tree	Jan 19	N
73	77	1803	333488.1	6243384.2	25.2	82.7	14.1	11.0	TREE	3297.5	137.7 South	2.83	Tree	Nov 18	N
74	78	9549	333421.5	6243621.0	23.8	78.1	14.2	9.6	TREE	3302.3	108.3 North	2.60	TREE	Nov 18	N
75	79	3348	333456.3	6243617.3	25.6	84.0	14.6	11.0	TREE	3334.5	94.7 North	2.74	Tree	Nov 18	N
76	80	9527	333507.2	6243454.1	29.4	96.5	14.6	14.8	TREE	3336.0	76.2 South	3.27	Gum Tree	Nov 18	N
77	81	1738	333523.1	6243452.1	29.1	95.5	14.8	14.4	TREE	3350.7	82.8 South	3.16	Tree	Nov 18	N
78	82	9511	333471.0	6243639.8	27.0	88.6	14.8	12.2	TREE	3355.0	112 North	2.86	TREE	Nov 18	N

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					MGA94																		
					metres	(feet)						metres				metres	metres	metres	(%)				
79	83	9513	333536.7	6243460.5	28.7	94.2	15.0	13.8	TREE	3366.1	78.7 South	3.05	Gum Tree	Nov 18	N								
80	84	9525	333545.7	6243577.3	25.0	82.0	15.5	9.5	TREE	3408.5	30.6 North	2.41	TREE	Nov 18	N								
81	85	3115	333549.1	6243567.8	26.8	87.9	15.5	11.3	TREE	3409.0	20.5 North	2.63	Tree	Nov 18	N								
82	86	9528	333599.5	6243479.1	29.3	96.1	15.8	13.5	TREE	3431.6	79 South	2.86	Gum Tree	Nov 18	N								
83	87	9512	333526.5	6243723.6	28.7	94.2	15.8	12.9	TREE	3432.4	176.1 North	2.79	TREE	Nov 18	N								
84	88	378	333637.7	6243508.8	33.7	110.6	16.3	17.4	TREE	3476.7	61.6 South	3.23	Sheoak	Jan 19	N								
85	89	206	333577.9	6243733.7	25.6	84.0	16.4	9.2	TREE	3484.6	171 North	2.27	Tree	Nov 18	N								
86	90	204	333579.2	6243743.4	26.7	87.6	16.4	10.3	TREE	3488.6	179.8 North	2.38	Tree	Nov 18	N								
87	91	3976	333658.1	6243496.7	31.5	103.3	16.5	15.0	TREE	3492.8	79.2 South	2.92	Tree	Nov 18	N								
88	93	380	333687.3	6243524.0	33.2	108.9	16.9	16.3	TREE	3528.6	61.5 South	2.99	Sheoak	Nov 18	N								
89	94	844	333652.7	6243686.8	26.1	85.6	17.1	9.0	TREE	3542.6	104.4 North	2.17	Gum Tree	Nov 18	N								
90	95	9504	333701.9	6243528.1	32.4	106.3	17.1	15.3	TREE	3543.8	61.8 South	2.86	TREE	Nov 18	N								
91	96	382	333720.3	6243536.7	31.5	103.3	17.3	14.2	TREE	3563.9	58.9 South	2.70	Sheoak	Nov 18	N								
92	97	4482	333685.4	6243666.2	27.6	90.6	17.4	10.2	TREE	3568.0	75.2 North	2.28	Tree	Nov 18	N								
93	98	846	333675.4	6243701.2	30.2	99.1	17.4	12.8	TREE	3568.5	111.6 North	2.55	Gum Tree	Nov 18	N								
94	99	854	333701.5	6243703.3	37.8	124.0	17.7	20.1	TREE	3594.1	106.1 North	3.26	Gum Tree	Jan 19	N								
95	100	465	333721.4	6243659.1	30.7	100.7	17.8	12.9	TREE	3600.4	58 North	2.52	Stringy Bark	Nov 18	N								
96		467	333732.0	6243650.7	26.9	88.3	17.9	9.0	TREE	3608.0	46.9 North	2.11	Stringy Bark	Nov 18	N								
97	101	493	333722.7	6243725.8	38.1	125.0	18.0	20.1	TREE	3620.9	121.5 North	3.21	Gum Tree Group	Jan 19	N								
98	102	469	333748.1	6243644.1	28.9	94.8	18.0	10.9	TREE	3621.6	35.9 North	2.29	Stringy Bark	Nov 18	N								
99		384	333790.9	6243518.7	26.6	87.3	18.1	8.6	TREE	3626.3	96.5 South	2.05	Tree	Nov 18	N								
100	103	1263	333758.1	6243632.4	30.6	100.4	18.1	12.5	TREE	3627.8	21.8 North	2.44	Tree	Nov 18	N								
101	104	471	333753.5	6243650.6	29.2	95.8	18.1	11.1	TREE	3628.6	40.6 North	2.30	Stringy Bark	Nov 18	N								
102	105	4483	333802.0	6243565.8	28.1	92.2	18.4	9.7	TREE	3650.5	54.6 South	2.14	Tree	Nov 18	N								
103	107	45	333856.6	6243600.4	28.8	94.5	19.1	9.7	TREE	3712.8	37.3 South	2.09	Pine Tree	Nov 18	N								
104	108	9531	333869.8	6243563.1	27.3	89.6	19.1	8.2	TREE	3714.6	76.8 South	1.95	TREE	Dec 15	N								
105	109	3351	333875.4	6243594.6	29.3	96.1	19.3	10.0	TREE	3729.1	48.3 South	2.10	Tree	Nov 18	N								
106	110	3350	333866.4	6243628.3	28.6	93.8	19.3	9.3	TREE	3730.3	13.4 South	2.04	Tree	Nov 18	N								
107	111	9499	333867.9	6243747.4	29.5	96.8	19.8	9.8	TREE	3766.1	100.1 North	2.05	Gum	Nov 18	N								
108	112	535	333868.8	6243771.2	29.7	97.4	19.9	9.9	TREE	3773.9	122.7 North	2.05	Gum and Pines	Nov 18	N								
109	113	9500	333910.2	6243639.0	29.4	96.5	19.9	9.6	TREE	3775.3	15.9 South	2.03	TREE	Nov 18	N								
110	114	1270	333934.5	6243601.9	31.3	102.7	20.0	11.3	TREE	3787.7	58.4 South	2.16	Tree	Nov 18	N								
111	115	2322	333905.9	6243702.2	34.3	112.5	20.0	14.3	TREE	3789.4	45.9 North	2.42	Tree	Nov 18	N								
112	116	47	333963.7	6243586.9	30.2	99.1	20.3	9.9	TREE	3811.4	81.2 South	2.03	Pine Tree Group	Nov 18	N								
113	119	563	333962.7	6243785.5	33.8	110.9	21.0	12.8	TREE	3867.9	109.2 North	2.23	Gum Tree	Nov 18	N								
114	120	9588	334049.4	6243519.0	32.2	105.6	21.1	11.1	TREE	3873.7	171 South	2.09	TREE	Nov 18	N								
115		9506	334026.7	6243625.9	30.9	101.4	21.2	9.7	TREE	3883.0	62.1 South	1.97	GUM	Nov 18	N								
116	121	9587	334041.3	6243586.0	36.4	119.4	21.2	15.2	TREE	3885.4	104.5 South	2.40	Gum	Nov 18	N								
117	122	9589	334092.5	6243519.9	34.0	111.5	21.6	12.5	TREE	3915.3	182.6 South	2.16	TREE	Nov 18	N								

Chart No. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport	
					metres	(feet)	metres	metres		metres	metres	metres				(%)
118	123	9586	334032.5	6243724.7	32.1	105.3	21.6	10.5	TREE	3917.1	30.8 North	2.01	TREE	Nov 18	N	
119	124	575	334034.2	6243803.8	31.4	103.0	21.9	9.6	TREE	3941.7	106 North	1.92	Gums and Pines	Nov 18	N	
120	125	9576	334190.8	6243973.6	33.5	109.9	24.3	9.3	TREE	4140.7	223.2 North	1.81	Norfolk Pine	Nov 18	N	
121	126	48	334385.5	6243522.9	36.7	120.4	24.9	11.7	SPIRE	4196.7	264.5 South	1.94	Traffic Camera+Mobile phone	Nov 16	N	
122	127	77	334673.3	6243758.6	44.6	146.3	29.1	15.6	ANTEN	4540.3	122.2 South	2.01	Mobile Phone Tower	Nov 18	N	
123	128	169	336559.4	6245074.9	71.6	234.9	55.3	16.3	ANTEN	6726.7	592.1 North	1.60	Antenna on Flats	Nov 18	N	
124		4744	337089.7	6244972.8	96.1	315.3	61.0	35.1	BLDG	7204.7	341 North	1.96	CRANE (Lit)	Jan 19	N	

\* Obstacle penetrates <0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA  
AERONAUTICAL INFORMATION PUBLICATION  
AERODROME OBSTACLE CHART (DECEMBER 2018)  
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)  
( 07 TAKE OFF )

**(NEW AND DELETED OBSTACLES)**

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the take-off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 190130.red

Sydney Kingsford-Smith Airport			07 Take Off					
Mid-point of origin		Runway Bearing	Height at		Runway Length	Chainage at Origin	Height at Origin	
<u>Easting</u>	<u>Northing</u>		<u>Chainage 00</u>				(m)	(ft)
(MGA94)	(MGA94)	(Deg Min Sec)	(m)	(ft)	(metres)	(metres)	(m)	(ft)
332799.696	6243319.910	73° 10' 55"	4.896	(16.1)	2529.9	2619.9	6.012	(19.7)

**EXPLANATION OF SPECIFIC TERMS**

<b>Chart No.</b>	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting <u>only</u> the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
<b>Reference Number</b>	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
<b>Type of Obstacle</b>	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
<b>Description</b>	General description of the respective obstacle.

New Obstacles (Obstacles newly reflected on Type A Charts - 2018 Survey)													
Chart No. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					metres	(feet)							
					MGA94					metres	(feet)	metres	
24		113	333125.3	6243297.3	14.3	46.9	9.7	4.6	SPIRE	2925.1	115.8 South	2.71	Light Pole
26		115	333129.2	6243326.6	15.6	51.2	9.8	5.7	SPIRE	2937.3	88.9 South	3.01	Light Pole
99		384	333790.9	6243518.7	26.6	87.3	18.1	8.6	TREE	3626.3	96.5 South	2.05	Tree
96		467	333732.0	6243650.7	26.9	88.3	17.9	9.0	TREE	3608.0	46.9 North	2.11	Stringy Bark
13		849	332962.3	6243351.2	10.7	35.1	8.0	2.8	MOVG	2784.6	17.1 South	2.87	Road (West Edge) (plus 4.6m)
18		947	332992.9	6243285.9	12.3	40.4	8.1	4.2	SPIRE	2795.0	88.4 South	3.58	Light pole (lit)
15		4468	332950.9	6243399.9	11.0	36.1	8.0	3.0	TREE	2787.8	32.8 North	2.97	Shrub
4		4606	332920.9	6243264.0	7.9	25.9	7.2	0.7	SPIRE	2719.8	88.6 South	1.89	Sign
16		4644	332975.8	6243339.3	9.4	30.8	8.1	1.3	SPIRE	2794.1	32.4 South	1.94	Light Pole
14		4647	332975.7	6243317.2	9.4	30.8	8.0	1.3	SPIRE	2787.6	53.5 South	1.99	Light Pole
17		4654	332996.0	6243273.5	9.4	30.8	8.1	1.3	SPIRE	2794.4	101.2 South	1.96	Light Pole
21		4679	333045.0	6243370.3	13.2	43.3	9.0	4.2	TREE	2869.3	22.7 South	2.87	Tree
25		4682	333067.7	6243488.2	15.2	49.9	9.7	5.5	SPIRE	2925.1	83.5 North	3.01	Pole
124		4744	337089.7	6244972.8	96.1	315.3	61.0	35.1	BLDG	7204.7	341 North	1.96	CRANE (Lit)
41		4762	333194.9	6243570.2	19.4	63.6	11.4	7.9	TREE	3070.6	125.2 North	2.96	Tree
42		4763	333199.1	6243560.4	19.1	62.7	11.4	7.7	TREE	3071.8	114.7 North	2.90	Tree
115		9506	334026.7	6243625.9	30.9	101.4	21.2	9.7	TREE	3883.0	62.1 South	1.97	GUM

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

\* Obstacle penetrates <0.05m.

Deleted Obstacles (Obstacles removed from Type A Charts - 2017 Survey)													
Chart No. (2018)	Chart No. (2017)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					metres	(feet)							
	13	7	332972.7	6243285.1	12.5	41.0	7.9	4.6	SPIRE	2775.4	83.4 South	4.14	Twin Light pole (lit)
	15	9	332972.8	6243338.1	12.7	41.7	8.1	4.6	SPIRE	2790.9	32.7 South	3.89	Twin Light pole (lit)
	4	50	332899.3	6243353.2	7.7	25.3	7.3	0.4	SPIRE	2724.9	3 North	1.61	07 Localiser
	29	117	333148.5	6243317.7	15.1	49.5	10.0	5.1	SPIRE	2953.2	103 South	2.73	Light Pole
	137	185	338062.9	6244982.8	99.6	326.8	72.2	27.4	TREE	8139.2	68.9 North	1.70	Fig Tree
	134	291	337942.0	6244798.9	88.7	291.0	70.2	18.5	ANTEN	7970.3	72.1 South	1.55	Antenna on Flats
	39	349	333145.1	6243493.5	15.7	51.5	10.6	5.1	BLDG	3000.8	66.2 North	2.54	G.I. Factory Roof
	129	352	337614.0	6245387.8	91.5	300.2	68.5	23.0	TREE	7826.7	586.5 North	1.64	Pine Tree
	131	356	337676.6	6245373.9	95.0	311.7	69.2	25.8	TREE	7882.6	555.1 North	1.69	Pine Tree
	132	358	337689.4	6245406.7	96.4	316.3	69.4	27.0	TREE	7904.3	582.8 North	1.71	Tree
	130	360	337640.2	6245349.9	92.7	304.1	68.7	24.0	TREE	7840.7	542.6 North	1.66	Tree
	133	362	337778.5	6245338.0	89.5	293.6	70.2	19.3	TREE	7969.7	491.3 North	1.56	Gum Tree
	117	541	333913.8	6243779.9	30.7	100.7	20.4	10.2	TREE	3819.5	117.9 North	2.05	Gums and Pines
	118	557	333948.5	6243786.2	31.9	104.7	20.8	11.1	TREE	3854.5	113.9 North	2.10	Gum Tree
	14	907	332972.7	6243310.8	12.7	41.7	8.0	4.7	SPIRE	2782.9	58.8 South	4.11	Twin Light pole (lit)
	16	909	332972.9	6243368.5	12.7	41.7	8.2	4.5	SPIRE	2799.8	3.6 South	3.71	Light pole with "Merge Left" sign (lit)
	19	911	332972.6	6243427.4	13.1	43.0	8.4	4.7	SPIRE	2816.6	52.9 North	3.60	Twin Light pole
	92	1264	333607.3	6243708.0	25.6	84.0	16.6	9.0	TREE	3505.3	137.9 North	2.21	Tree
	17	1774	332973.0	6243398.1	12.7	41.7	8.3	4.5	SPIRE	2808.4	24.7 North	3.57	Light Pole (lit)
	135	2312	337870.1	6245077.7	93.4	306.4	70.4	23.1	ANTEN	7982.1	215.5 North	1.63	Mobile Phone Tower
	106	3116	333740.9	6243800.8	29.1	95.5	18.5	10.6	TREE	3660.0	188 North	2.22	Norfolk Pine Tree
	22	4428	333050.5	6243517.7	14.6	47.9	9.6	5.0	SPIRE	2917.3	116.8 North	2.88	Pole
	26	4431	333105.3	6243449.3	16.8	55.1	10.0	6.9	TREE	2949.9	35.4 North	3.28	Tree
	27	4432	333106.2	6243446.4	17.3	56.8	10.0	7.3	TREE	2949.9	32.4 North	3.41	Tree
	38	4458	333193.4	6243329.3	19.0	62.3	10.6	8.4	TREE	2999.6	104.9 South	3.42	Tree
	24	4470	333107.9	6243435.8	15.3	50.2	10.0	5.4	TREE	2948.5	21.8 North	2.83	Tree
	28	4471	333128.0	6243380.3	14.6	47.9	10.0	4.6	SPIRE	2951.6	37.1 South	2.58	Light pole
	33	4472	333152.2	6243368.7	16.5	54.1	10.2	6.3	TREE	2971.5	55.3 South	2.98	Tree
	42	4489	333188.9	6243396.9	16.1	52.8	10.8	5.3	TREE	3014.8	38.9 South	2.55	Tree
	136	9502	338039.4	6245004.0	98.1	321.9	72.0	26.1	TREE	8122.8	96 North	1.67	Gum Tree

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

\* Obstacle penetrates <0.05m.