

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34L Takeoff)

(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 220323.xlsm

Sydney Kingsford-Smith Airport Runway 34L Take Off						
Mid-point Easting	of origin Northing	Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
330978.635	6244258.731	346° 47' 03"	4.270 (14.009)	3962.5	4052.5	2.180 (7.152)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only 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.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

2021 RWY 34L Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	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	metres		metres	metres	%			
		396	330513.3	6245438.2	23.4	76.6	17.2	6.1	TREE	5307	183.3 West	1.69%		Dec 21	N
		398	330509.6	6245442.4	23.2	76.1	17.3	5.9	TREE	5312	186.1 West	1.67%	Palm tree	Dec 21	N
		400	330718.5	6245565.1	28.5	93.4	18.2	10.3	TREE	5384	45.4 East	1.97%	Palm tree	Dec 21	N
		440	329857.2	6248346.7	55.7	182.7	53.0	2.7	TREE	8289	157.1 West	1.26%	Gum Tree	Dec 21	N
		444	329811.5	6247821.9	58.0	190.3	47.0	11.0	BLDG	7788	321.6 West	1.49%	Building	Dec 21	N
		482	331039.8	6244413.8	5.3	17.4	3.8	1.5	SPIRE	4190	95.0 East	2.29%	Light Pole	Nov 21	Y
		484	331024.2	6244410.1	5.2	17.2	3.8	1.4	SPIRE	4189	79.0 East	2.24%	Light Pole	Nov 21	Y
		486	331009.3	6244406.7	5.3	17.3	3.8	1.5	SPIRE	4190	63.7 East	2.26%	Light Pole	Nov 21	Y
		488	330991.2	6244402.4	5.2	17.2	3.8	1.4	SPIRE	4189	45.0 East	2.24%	Light Pole	Nov 21	Y
		490	330976.8	6244399.0	5.2	17.2	3.8	1.4	SPIRE	4190	30.2 East	2.24%	Light Pole	Nov 21	Y
		492	330961.7	6244395.5	5.3	17.2	3.8	1.4	SPIRE	4189	14.7 East	2.24%	Light Pole	Nov 21	Y
		494	330945.1	6244391.6	5.2	17.2	3.8	1.4	SPIRE	4190	2.3 West	2.23%	Light Pole	Nov 21	Y
		496	330930.1	6244388.1	5.2	17.1	3.8	1.4	SPIRE	4190	17.7 West	2.21%	Light Pole	Nov 21	Y
		498	330914.3	6244384.3	5.3	17.2	3.8	1.4	SPIRE	4189	33.9 West	2.24%	Light Pole	Nov 21	Y
		500	330899.7	6244380.9	5.3	17.4	3.8	1.5	SPIRE	4190	48.9 West	2.27%	Light Pole	Nov 21	Y
		502	330882.3	6244376.8	5.3	17.3	3.8	1.4	SPIRE	4189	66.8 West	2.26%	Light Pole	Nov 21	Y
		504	330867.8	6244373.4	5.3	17.5	3.8	1.5	SPIRE	4190	81.7 West	2.29%	Light Pole	Nov 21	Y
		506	330852.0	6244369.7	5.3	17.3	3.8	1.5	SPIRE	4189	97.9 West	2.26%	Light Pole	Nov 21	Y
		526	331044.4	6244452.6	6.9	22.5	4.3	2.6	SPIRE	4226	108.3 East	2.69%	Light Pole	Nov 21	Y
		528	331032.6	6244449.8	6.9	22.7	4.3	2.7	SPIRE	4226	96.2 East	2.73%	Light Pole	Nov 21	Y
		530	331020.8	6244447.0	6.9	22.6	4.3	2.6	SPIRE	4226	84.1 East	2.72%	Light Pole	Nov 21	Y
		532	331008.7	6244444.2	6.9	22.5	4.3	2.6	SPIRE	4226	71.7 East	2.69%	Light Pole	Nov 21	Y
		534	330996.9	6244441.5	6.9	22.5	4.3	2.6	SPIRE	4226	59.6 East	2.69%	Light Pole	Nov 21	Y
		536	330985.0	6244438.7	6.8	22.5	4.3	2.6	SPIRE	4226	47.3 East	2.68%	Light Pole	Nov 21	Y
		538	330973.2	6244435.9	6.9	22.6	4.3	2.6	SPIRE	4226	35.2 East	2.71%	Light Pole	Nov 21	Y
		540	330961.4	6244433.1	6.9	22.5	4.3	2.6	SPIRE	4226	23.1 East	2.69%	Light Pole	Nov 21	Y
		542	330949.2	6244430.3	6.9	22.5	4.3	2.6	SPIRE	4226	10.5 East	2.69%	Light Pole	Nov 21	Y
		544	330937.6	6244427.5	6.8	22.3	4.3	2.5	SPIRE	4226	1.4 West	2.66%	Light Pole	Nov 21	Y
		546	330925.6	6244424.7	6.9	22.6	4.3	2.6	SPIRE	4226	13.7 West	2.70%	Light Pole	Nov 21	Y
		548	330913.8	6244421.9	6.8	22.3	4.3	2.5	SPIRE	4226	25.9 West	2.66%	Light Pole	Nov 21	Y
		550	330901.9	6244419.1	6.9	22.5	4.3	2.6	SPIRE	4226	38.1 West	2.70%	Light Pole	Nov 21	Y
		552	330890.1	6244416.3	6.9	22.6	4.3	2.6	SPIRE	4226	50.1 West	2.71%	Light Pole	Nov 21	Y
		554	330878.1	6244413.5	6.9	22.6	4.3	2.6	SPIRE	4226	62.5 West	2.71%	Light Pole	Nov 21	Y
		556	330866.5	6244410.7	6.9	22.5	4.3	2.6	SPIRE	4226	74.4 West	2.69%	Light Pole	Nov 21	Y
		558	330854.8	6244407.9	6.8	22.4	4.3	2.6	SPIRE	4226	86.5 West	2.68%	Light Pole	Nov 21	Y
		560	330842.6	6244405.2	6.9	22.6	4.3	2.6	SPIRE	4226	98.9 West	2.71%	Light Pole	Nov 21	Y
		562	330830.9	6244402.4	6.9	22.6	4.3	2.6	SPIRE	4226	111.0 West	2.71%	Light Pole	Nov 21	Y
		574	330948.0	6244391.3	4.2	13.7	3.8	0.4	LINES	4189	0.5 East	1.48%	Wire line atop RWY 16R Blast Fence	Nov 21	Y
		576	331050.5	6244415.3	4.2	13.8	3.8	0.4	LINES	4189	105.8 East	1.49%	Wire line atop RWY 16R Blast Fence	Nov 21	Y
		582	330853.4	6244370.8	4.6	15.3	3.8	0.8	SPIRE	4190	96.3 West	1.79%	Road Sign	Nov 21	Y
		584	330911.2	6244384.0	4.7	15.4	3.8	0.9	SPIRE	4190	37.0 West	1.84%	Road Sign	Nov 21	Y
		738	330136.5	6247824.1	50.6	166.1	46.1	4.5	ANTEN	7716	4.7 West	1.32%	Mobile Phone Tower	Dec 21	N
		1208	330760.1	6245023.3	12.8	42.1	11.7	1.1	SPIRE	4847	37.9 West	1.34%	FLOOD LIGHT	Nov 21	N
		1214	330986.3	6244869.2	12.2	39.9	9.3	2.9	SPIRE	4645	147.0 East	1.69%	LIGHT POLE	Nov 21	N
36	61	1226	330607.5	6245214.0	28.2	92.5	14.4	13.8	TREE	5067	142.9 West	2.56%	TREE	Mar 22	N
	59	1229	330579.5	6245117.6	22.1	72.4	13.3	8.8	SPIRE	4980	192.2 West	2.14%	LIGHT POLE	Nov 21	N
		1309	330863.7	6244394.7	5.4	17.7	4.1	1.3	SPIRE	4211	80.8 West	2.02%	Perimeter fence	Nov 21	Y
		1310	330910.4	6244405.6	5.4	17.7	4.1	1.3	SPIRE	4211	32.9 West	2.02%	Perimeter fence	Nov 21	Y
		1311	330950.9	6244415.1	5.4	17.7	4.1	1.3	SPIRE	4211	8.8 East	2.02%	Perimeter fence	Nov 21	Y
		1312	330978.9	6244421.7	5.4	17.7	4.1	1.3	SPIRE	4211	37.5 East	2.02%	Perimeter fence	Nov 21	Y

Chart No. (2021)	Chart No. (2020)	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	metres				%			
		1313	331006.8	6244428.2	5.4	17.7	4.1	1.3	SPIRE	4211	66.2 East	2.02%	Perimeter fence	Nov 21	Y
		1314	331041.8	6244436.4	5.4	17.7	4.1	1.3	SPIRE	4211	102.1 East	2.02%	Perimeter fence	Nov 21	Y
		1318	330776.3	6245249.4	23.5	77.2	14.3	9.2	ANTEN	5063	29.5 East	2.11%	Mobile Phone Tower	Dec 21	N
		1320	330752.2	6245226.8	20.1	66.0	14.1	6.0	BLDG	5047	0.9 East	1.80%	Plant room atop building	Nov 21	N
		1321	330897.6	6245339.7	22.4	73.3	15.0	7.3	BLDG	5123	168.2 East	1.88%	Building	Dec 21	N
		1322	330917.0	6245341.8	22.4	73.3	15.0	7.4	BLDG	5121	187.6 East	1.89%	Building	Dec 21	N
		1323	330703.8	6245190.9	19.8	64.8	13.8	5.9	BLDG	5023	54.5 West	1.81%	Apex of building	Nov 21	N
		1724	330870.7	6244488.6	6.8	22.4	5.2	1.7	SPIRE	4301	52.6 West	1.87%	Fence Pole	Nov 21	Y
		1740	330776.8	6245476.5	25.7	84.4	17.0	8.8	SPIRE	5284	81.9 East	1.91%	Light Pole	Dec 21	N
52	77	1798	330653.4	6247743.0	63.0	206.7	43.8	19.2	TREE	7519	480.0 East	1.75%	Tree - Norfolk	Mar 22	N
		1990	329684.6	6247698.7	66.4	217.7	45.9	20.4	TREE	7697	473.3 West	1.76%	Tree	Nov 21	N
		1991	329770.8	6247708.9	66.5	218.2	45.8	20.7	TREE	7687	387.1 West	1.77%	Gum Tree	Nov 21	N
	49	2100	330692.7	6244950.4	17.9	58.7	11.0	6.8	SPIRE	4791	120.2 West	2.13%	Vent	Nov 21	N
	51	2102	330677.9	6244957.1	18.1	59.3	11.2	6.9	SPIRE	4801	133.1 West	2.12%	Vent	Dec 21	N
		2104	330667.8	6244968.7	18.0	59.1	11.3	6.7	SPIRE	4815	140.3 West	2.08%	Vent	Nov 21	N
		2106	330658.1	6244979.9	18.1	59.5	11.5	6.7	SPIRE	4828	147.2 West	2.06%	Vent	Nov 21	N
		2108	330648.5	6244990.9	18.4	60.4	11.6	6.8	SPIRE	4841	154.0 West	2.06%	Vent	Nov 21	N
		2110	330638.2	6245002.9	18.5	60.8	11.8	6.7	SPIRE	4855	161.3 West	2.04%	Vent	Nov 21	N
		2112	330628.0	6245014.6	18.8	61.8	12.0	6.9	SPIRE	4868	168.6 West	2.04%	Vent	Nov 21	N
		2114	330619.3	6245024.6	19.0	62.4	12.1	6.9	SPIRE	4880	174.7 West	2.03%	Vent	Dec 21	N
		2116	330608.8	6245036.6	19.4	63.5	12.3	7.1	SPIRE	4894	182.2 West	2.04%	Vent	Dec 21	N
		2136	330598.7	6245048.3	19.6	64.2	12.4	7.1	SPIRE	4908	189.3 West	2.03%	Vent	Dec 21	N
		2138	330588.6	6245059.9	19.8	65.1	12.6	7.2	SPIRE	4922	196.6 West	2.03%	Vent	Dec 21	N
		2146	330583.1	6245134.5	22.2	73.0	13.5	8.7	SPIRE	4996	184.8 West	2.13%	Street light	Nov 21	N
		2148	330631.7	6245150.8	22.3	73.0	13.6	8.7	SPIRE	5000	133.8 West	2.12%	Street light	Dec 21	N
		2150	330676.1	6245072.6	18.4	60.5	12.5	5.9	SPIRE	4914	108.4 West	1.89%	Street light	Dec 21	N
		2516	330626.4	6245527.9	30.2	99.1	18.0	12.2	TREE	5369	52.8 West	2.13%	Tree	Nov 21	N
		2518	330878.0	6245745.5	28.9	94.7	19.8	9.1	TREE	5523	241.9 East	1.82%	Tree	Dec 21	N
		2520	330871.2	6245111.8	18.0	59.1	12.4	5.6	SPIRE	4908	90.4 East	1.85%	Flood Light	Dec 21	N
	7	2578	330895.2	6244363.8	5.9	19.2	3.6	2.2	SPIRE	4174	57.2 West	3.03%	Far field monitor mast	Nov 21	Y
4	8	2580	330950.7	6244376.9	6.0	19.5	3.6	2.3	SPIRE	4174	0.2 West	3.10%	Far Field monitor mast (lit)	Mar 22	Y
		2966	330965.8	6244260.6	4.2	13.8	2.2	2.0	SPIRE	4057	12.0 West	43.10%	HIAL	Mar 22	Y
		2967	330989.3	6244266.1	4.2	13.8	2.2	2.0	SPIRE	4057	12.1 East	42.82%	HIAL	Mar 22	Y
1	2	2968	330977.6	6244263.3	4.2	13.9	2.2	2.0	SPIRE	4057	0.0 East	44.02%	HIAL	Mar 22	Y
	3	2969	330959.1	6244289.7	4.7	15.5	2.6	2.1	SPIRE	4087	12.0 West	7.34%	HIAL	Mar 22	Y
		2970	330970.8	6244292.5	4.7	15.5	2.6	2.1	SPIRE	4087	0.0 East	7.35%	HIAL	Mar 22	Y
2	4	2971	330982.4	6244295.2	4.7	15.5	2.6	2.1	SPIRE	4087	12.1 East	7.38%	HIAL	Mar 22	Y
	5	2975	330957.0	6244350.9	5.7	18.8	3.3	2.4	SPIRE	4147	0.0 East	3.74%	HIAL	Mar 22	Y
		2976	330945.3	6244348.3	5.7	18.8	3.3	2.4	SPIRE	4147	12.0 West	3.74%	HIAL	Mar 22	Y
3	6	2977	330968.6	6244353.7	5.7	18.8	3.3	2.4	SPIRE	4147	12.0 East	3.75%	HIAL	Mar 22	Y
		2978	330964.1	6244385.9	6.2	20.2	3.7	2.4	SPIRE	4180	14.9 East	3.12%	HIAL	Nov 21	Y
		2979	330934.9	6244379.1	6.2	20.3	3.7	2.5	SPIRE	4180	15.1 West	3.15%	HIAL	Nov 21	Y
5	9	2980	330949.7	6244382.2	6.5	21.3	3.7	2.8	SPIRE	4179	0.0 East	3.39%	HIAL	Mar 22	Y
7	13	2981	330942.2	6244413.9	7.1	23.3	4.1	3.0	SPIRE	4212	0.0 East	3.08%	HIAL	Mar 22	Y
9	15	2982	330927.6	6244476.3	8.0	26.2	4.9	3.1	SPIRE	4276	0.0 East	2.60%	HIAL	Nov 21	N
10	16	2983	330921.2	6244503.0	8.5	27.9	5.2	3.3	SPIRE	4303	0.0 West	2.52%	HIAL	Nov 21	Y
11	17	2984	330914.9	6244530.0	9.0	29.6	5.5	3.5	SPIRE	4331	0.0 West	2.45%	HIAL	Nov 21	Y
12	18	2985	330908.6	6244557.0	9.4	31.0	5.9	3.6	SPIRE	4359	0.0 West	2.37%	HIAL	Nov 21	Y
13	19	2986	330902.3	6244584.1	9.9	32.5	6.2	3.7	SPIRE	4387	0.0 East	2.31%	HIAL	Nov 21	Y
16	22	2987	330895.9	6244611.0	10.3	33.8	6.5	3.8	SPIRE	4414	0.0 West	2.24%	HIAL	Nov 21	Y

2021 RWY 34L Type A
All Obstacles Penetrating the 1.2% Type A Surface

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					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
22	28	2988	330889.6	6244638.0	10.7	35.2	6.9	3.9	SPIRE	4442	0.1 East	2.19%	HIAL	Nov 21	Y
24	30	2989	330883.3	6244664.7	11.2	36.8	7.2	4.0	SPIRE	4470	0.0 East	2.17%	HIAL	Nov 21	Y
25	31	2990	330876.8	6244691.9	11.7	38.5	7.5	4.2	SPIRE	4498	0.1 West	2.15%	HIAL	Nov 21	Y
28	34	2991	330870.6	6244719.0	12.3	40.2	7.9	4.4	SPIRE	4525	0.0 East	2.13%	HIAL	Nov 21	Y
31	37	2992	330864.2	6244746.0	12.7	41.7	8.2	4.5	SPIRE	4553	0.0 West	2.10%	HIAL	Nov 21	Y
	38	2993	330857.9	6244773.0	13.1	43.1	8.5	4.6	SPIRE	4581	0.0 East	2.07%	HIAL	Nov 21	Y
	43	2994	330851.5	6244800.0	13.7	44.9	8.9	4.8	SPIRE	4608	0.0 West	2.07%	HIAL	Nov 21	Y
		2995	330845.2	6244827.0	14.0	46.1	9.2	4.9	SPIRE	4636	0.0 East	2.03%	HIAL	Nov 21	Y
		2996	330838.9	6244853.7	14.5	47.7	9.5	5.0	SPIRE	4664	0.0 West	2.02%	HIAL	Nov 21	Y
		2997	330832.4	6244881.5	15.0	49.2	9.9	5.1	SPIRE	4692	0.1 East	2.00%	HIAL	Nov 21	N
8	14	3000	330935.0	6244444.7	7.5	24.6	4.5	3.0	SPIRE	4244	0.0 East	2.78%	HIAL	Nov 21	Y
		3005	330937.2	6244445.6	7.3	23.9	4.5	2.8	SPIRE	4244	2.3 East	2.67%	HIAL	Nov 21	Y
		3006	330932.8	6244444.6	7.2	23.8	4.5	2.8	SPIRE	4244	2.2 West	2.65%	HIAL	Nov 21	Y
48	72	3032	330596.2	6245406.3	31.0	101.7	16.6	14.4	TREE	5257	109.9 West	2.39%	Tree	Mar 22	N
46	70	3033	330721.1	6245402.1	29.1	95.6	16.2	12.9	TREE	5224	10.7 East	2.30%	Palm Tree	Mar 22	N
		3035	330887.5	6245486.7	28.5	93.5	16.8	11.7	TREE	5269	192.0 East	2.16%	Palm Tree	Nov 21	N
		3062	331022.7	6244273.1	2.6	8.4	2.2	0.3	SPIRE	4056	46.2 East	9.96%	frangible marker	Nov 21	Y
		3063	330933.4	6244249.2	2.6	8.7	2.2	0.5	SPIRE	4054	46.2 West	45.08%	frangible marker	Nov 21	Y
		3064	331016.5	6244298.1	2.8	9.2	2.5	0.3	SPIRE	4082	45.9 East	2.09%	frangible marker	Nov 21	Y
		3065	330926.8	6244276.5	2.5	8.3	2.5	0.0	SPIRE	4082	46.4 West	1.21%	frangible marker	Nov 21	Y
		3075	330673.2	6245085.8	18.3	59.9	12.7	5.6	SPIRE	4928	108.2 West	1.84%	Street light	Dec 21	N
		3076	330652.3	6245098.9	18.8	61.5	12.9	5.9	SPIRE	4945	125.6 West	1.86%	Street light	Dec 21	N
34	57	3077	330670.1	6245100.1	24.1	79.1	12.9	11.3	TREE	4942	108.0 West	2.47%	Palm Tree	Mar 22	N
		3078	330643.9	6245023.5	19.4	63.6	12.0	7.4	BLDG	4874	151.0 West	2.10%	Vent atop building	Nov 21	N
		3079	330590.3	6245177.4	22.6	74.0	14.0	8.6	BLDG	5036	168.0 West	2.07%	Lightning rod atop chimney	Dec 21	N
		3081	330632.4	6245517.8	30.0	98.5	17.8	12.2	TREE	5357	49.2 West	2.13%	Tree	Nov 21	N
		3082	330641.8	6245632.3	29.8	97.9	19.2	10.7	TREE	5467	13.9 West	1.96%	Tree	Dec 21	N
		3083	330628.8	6245551.7	29.6	97.1	18.2	11.4	TREE	5391	45.0 West	2.05%	Tree	Nov 21	N
		3084	330452.2	6245705.6	24.1	79.1	20.5	3.6	TREE	5581	181.7 West	1.43%	Palm Tree	Dec 21	N
		3193	329429.6	6248458.5	70.5	231.3	55.5	15.0	TREE	8495	547.9 West	1.54%	Tree	Dec 21	N
		3194	329623.5	6248315.2	66.7	218.8	53.3	13.4	TREE	8311	391.9 West	1.51%	Tree	Dec 21	N
		3195	329912.1	6248103.0	66.2	217.2	50.0	16.2	TREE	8039	159.4 West	1.61%	Tree	Dec 21	N
		3402	331021.3	6244528.9	7.3	23.8	5.2	2.0	SPIRE	4306	103.3 East	2.00%	Lightpole	Nov 21	Y
	46	3411	330743.5	6244796.1	15.2	50.0	9.1	6.1	SPIRE	4629	106.0 West	2.26%	Traffic sign	Nov 21	Y
		3420	330703.3	6244960.1	17.7	57.9	11.1	6.5	SPIRE	4798	107.7 West	2.07%	Vent	Nov 21	N
		3422	330953.5	6245050.4	17.4	57.1	11.5	5.9	BLDG	4829	156.5 East	1.96%	Container	Nov 21	N
	58	3423	330624.8	6245125.9	22.4	73.4	13.3	9.1	TREE	4978	146.2 West	2.18%	Tree	Nov 21	N
		3424	330608.5	6245148.8	21.4	70.3	13.6	7.8	SPIRE	5004	156.8 West	2.02%	Light pole	Dec 21	N
		3425	330633.7	6245139.6	21.2	69.7	13.4	7.8	SPIRE	4989	134.4 West	2.04%	Power pole	Dec 21	N
		3428	330766.9	6245272.0	20.9	68.5	14.6	6.3	SPIRE	5087	25.5 East	1.81%	Flag	Dec 21	N
		3429	330681.5	6245293.2	25.3	83.0	15.1	10.2	TREE	5128	52.7 West	2.15%	Tree	Nov 21	N
37	62	3430	330688.9	6245311.7	28.0	92.0	15.3	12.8	TREE	5144	41.3 West	2.37%	Tree	Mar 22	N
39	64	3431	330646.2	6245318.9	27.5	90.3	15.5	12.0	TREE	5161	81.2 West	2.29%	Tree	Nov 21	N
40	65	3432	330641.4	6245335.1	26.5	86.9	15.7	10.8	TREE	5177	82.3 West	2.16%	Tree	Nov 21	N
42	67	3433	330626.3	6245359.5	29.3	96.1	16.0	13.3	TREE	5205	91.3 West	2.35%	Tree	Mar 22	N
		3434	330877.5	6245376.8	25.6	84.1	15.5	10.1	TREE	5164	157.2 East	2.11%	Tree	Nov 21	N
43	68	3435	330656.4	6245371.5	27.2	89.1	16.1	11.1	TREE	5209	59.3 West	2.16%	Tree	Nov 21	N
45	69	3436	330626.5	6245368.0	29.0	95.0	16.1	12.9	TREE	5213	89.2 West	2.31%	Tree	Mar 22	N
		3438	330529.5	6247965.7	60.7	199.1	46.7	14.0	TREE	7764	410.2 East	1.58%	Tree	Dec 21	N
		3439	329866.2	6247869.0	60.7	199.0	47.4	13.2	TREE	7821	257.6 West	1.55%	Tree	Dec 21	N

Chart No. (2021)	Chart No. (2020)	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	metres		metres	metres	%			
		3440	330171.3	6247933.8	57.7	189.3	47.3	10.4	TREE	7815	54.3 East	1.48%	Tree	Dec 21	N
		3441	329613.7	6247784.5	61.8	202.8	47.1	14.7	SPIRE	7797	522.7 West	1.59%	Sewer Vent	Dec 21	N
		3442	330465.7	6247994.9	48.0	157.5	47.2	0.8	BLDG	7807	354.8 East	1.22%	Newington College	Dec 21	N
54	79	3443	329618.2	6247740.2	69.5	227.9	46.6	22.9	TREE	7753	528.5 West	1.82%	Gum Tree Group	Mar 22	N
		3445	329540.2	6247980.4	66.7	218.7	49.6	17.1	BLDG	8004	549.5 West	1.63%	Round Dark Chimney on Building	Dec 21	N
		3446	330353.0	6248024.8	58.7	192.4	47.9	10.8	TREE	7862	252.0 East	1.48%	Tree	Dec 21	N
		3447	329877.6	6247736.9	58.6	192.3	45.8	12.8	BLDG	7690	276.7 West	1.55%	Roof of Tower	Dec 21	N
		3448	330577.7	6248115.6	49.9	163.6	48.3	1.5	TREE	7899	491.4 East	1.24%	Tree	Dec 21	N
53	78	3449	330032.1	6247615.7	64.8	212.5	44.0	20.8	ANTEN	7537	154.0 West	1.80%	Lightning Rod	Mar 22	N
		3454	329658.6	6247951.6	61.1	200.5	48.9	12.2	BLDG	7949	440.8 West	1.51%	Petersham Town Hall	Dec 21	N
55	80	3459	329612.2	6247971.2	70.3	230.7	49.3	21.0	SPIRE	7979	481.5 West	1.74%	Flag Pole on Clock Tower	Mar 22	N
		3460	329833.6	6247941.2	52.0	170.6	48.3	3.6	BLDG	7899	272.8 West	1.29%	Roof	Dec 21	N
		3461	329692.1	6247829.4	61.2	200.8	47.4	13.8	SPIRE	7823	436.2 West	1.57%	Flag Pole on Building	Dec 21	N
		3463	329702.0	6247877.1	62.1	203.7	48.0	14.1	ANTEN	7867	415.6 West	1.57%	Cross on E end of Church	Dec 21	N
		3465	329759.7	6247860.4	61.7	202.3	47.6	14.1	TREE	7837	363.2 West	1.57%	Palm Tree	Dec 21	N
		3467	329758.4	6247883.4	57.0	187.0	47.9	9.1	SPIRE	7860	359.3 West	1.44%	Sewer Vent	Dec 21	N
		3473	330078.8	6247798.4	55.0	180.4	46.0	9.0	SPIRE	7704	66.7 West	1.45%	Church Spire	Dec 21	N
		3477	330603.3	6247717.9	54.6	179.2	43.6	11.0	BLDG	7506	425.5 East	1.52%	Building	Dec 21	N
		3479	330631.1	6247702.9	54.4	178.5	43.4	11.0	BLDG	7485	449.1 East	1.52%	Building	Dec 21	N
		3481	330492.0	6247867.0	58.9	193.4	45.7	13.3	TREE	7676	351.1 East	1.57%	Camphorlaurel Trees	Dec 21	N
		3487	330646.2	6245162.5	22.2	72.9	13.7	8.6	SPIRE	5008	117.0 West	2.10%	Light Pole	Dec 21	N
		3488	329885.8	6248194.9	61.8	202.8	51.2	10.7	TREE	8134	164.0 West	1.46%	Tree	Dec 21	N
		3489	330669.8	6245162.9	23.2	76.2	13.6	9.6	SPIRE	5003	93.9 West	2.21%	Elec Pole	Dec 21	N
		3491	329717.4	6247820.3	62.0	203.4	47.2	14.8	ANTEN	7808	413.6 West	1.59%	Flag Pole on Building	Dec 21	N
		3492	329699.2	6248312.4	56.0	183.8	53.0	3.0	BLDG	8291	318.7 West	1.27%	Apartment	Dec 21	N
		3493	329636.5	6248203.9	65.1	213.6	52.0	13.1	ANTEN	8200	404.7 West	1.52%	Whip Antenna	Dec 21	N
		3494	329564.3	6248374.3	61.5	201.8	54.1	7.4	TREE	8382	436.0 West	1.37%	Tree	Dec 21	N
		3496	329739.5	6248608.1	58.0	190.3	56.4	1.6	BLDG	8570	212.0 West	1.24%	Petersham College	Dec 21	N
		3497	329752.8	6247633.5	55.9	183.2	45.0	10.9	TREE	7618	421.9 West	1.51%	Palm Tree	Dec 21	N
		3509	330856.7	6245526.7	29.5	96.9	17.3	12.2	SPIRE	5315	171.1 East	2.17%	Sewer Vent	Nov 21	N
		3511	331048.0	6244437.0	6.8	22.3	4.1	2.7	SPIRE	4210	108.3 East	2.92%	Light Pole	Nov 21	Y
		3513	331036.1	6244434.2	6.8	22.4	4.1	2.7	SPIRE	4210	96.1 East	2.94%	Light Pole	Nov 21	Y
		3515	331024.4	6244431.5	6.7	22.1	4.1	2.7	SPIRE	4210	84.0 East	2.89%	Light Pole	Nov 21	Y
	10	3517	331012.4	6244428.6	6.8	22.2	4.1	2.7	SPIRE	4210	71.7 East	2.92%	Light Pole	Nov 21	Y
		3519	331000.6	6244425.8	6.8	22.4	4.1	2.7	SPIRE	4210	59.6 East	2.94%	Light Pole	Nov 21	Y
		3521	330988.9	6244423.1	6.8	22.3	4.1	2.7	SPIRE	4210	47.5 East	2.92%	Light Pole	Nov 21	Y
		3523	330976.8	6244420.3	6.8	22.2	4.1	2.7	SPIRE	4210	35.2 East	2.90%	Light Pole	Nov 21	Y
		3525	330964.9	6244417.5	6.7	22.1	4.1	2.7	SPIRE	4210	22.9 East	2.88%	Light Pole	Nov 21	Y
		3527	330952.9	6244414.7	6.8	22.3	4.1	2.7	SPIRE	4210	10.6 East	2.92%	Light Pole	Nov 21	Y
		3529	330940.8	6244411.9	6.7	22.1	4.1	2.7	SPIRE	4210	1.8 West	2.90%	Light Pole	Nov 21	Y
		3531	330929.3	6244409.2	6.8	22.3	4.1	2.7	SPIRE	4210	13.6 West	2.92%	Light Pole	Nov 21	Y
		3533	330917.6	6244406.4	6.8	22.3	4.1	2.7	SPIRE	4210	25.7 West	2.92%	Light Pole	Nov 21	Y
		3535	330905.4	6244403.5	6.8	22.2	4.1	2.7	SPIRE	4210	38.3 West	2.90%	Light Pole	Nov 21	Y
		3537	330894.1	6244400.9	6.8	22.3	4.1	2.7	SPIRE	4210	49.8 West	2.94%	Light Pole	Nov 21	Y
		3539	330881.8	6244398.0	6.8	22.3	4.1	2.7	SPIRE	4210	62.4 West	2.93%	Light Pole	Nov 21	Y
6	12	3541	330870.2	6244395.4	7.0	23.1	4.1	3.0	SPIRE	4210	74.4 West	3.08%	Light Pole	Mar 22	Y
		3543	330858.7	6244392.5	6.8	22.3	4.1	2.7	SPIRE	4210	86.2 West	2.93%	Light Pole	Nov 21	Y
	11	3545	330846.5	6244389.6	6.9	22.7	4.1	2.9	SPIRE	4210	98.8 West	3.01%	Light Pole	Nov 21	Y
49	73	3577	330786.2	6245484.1	29.7	97.4	17.0	12.7	SPIRE	5289	92.8 East	2.22%	Sewer Vent	Mar 22	N
		3581	330762.9	6244730.6	12.1	39.7	8.3	3.8	TERRN	4561	102.2 West	1.95%	Natural Surface	Dec 21	Y

2021 RWY 34L Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	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	metres		metres	metres	metres			
		3587	330477.5	6247404.9	47.4	155.5	40.3	7.1	TREE	7230	231.4 East	1.42%	Pine Tree	Dec 21	N
		3589	330691.8	6247546.6	47.1	154.4	41.4	5.7	BLDG	7319	472.4 East	1.37%	Tile roof of flats	Dec 21	N
		3591	330657.5	6247567.4	48.8	160.1	41.7	7.1	BLDG	7347	443.8 East	1.42%	Brick wall at N of Building	Dec 21	N
		3607	329780.5	6248223.9	58.1	190.6	51.8	6.3	SPIRE	8187	259.9 West	1.35%	Sewer Vent	Dec 21	N
		3609	330104.5	6248423.9	54.1	177.5	53.2	0.9	SPIRE	8307	101.2 East	1.22%	Church Spire	Dec 21	N
		3615	329508.5	6248450.9	57.4	188.4	55.2	2.2	SPIRE	8470	472.8 West	1.25%	Church Spire (Conc Brick)	Dec 21	N
		3619	330861.7	6246035.8	28.5	93.5	23.3	5.2	ANTEN	5809	292.4 East	1.50%	Mobile Phone on Building	Dec 21	N
		3623	330515.5	6245611.9	22.4	73.5	19.3	3.1	SPIRE	5476	141.6 West	1.42%	El and Lt Pole	Dec 21	N
		3625	330579.1	6245668.1	23.7	77.8	19.7	4.0	SPIRE	5516	66.8 West	1.47%	El and Lt Pole	Dec 21	N
		3635	330749.5	6245181.9	15.8	51.8	13.6	2.2	SPIRE	5004	12.1 West	1.43%	El and Lt Pole	Dec 21	N
		3637	330741.3	6245274.9	18.4	60.5	14.7	3.7	SPIRE	5096	1.3 East	1.56%	El and Lt Pole	Dec 21	N
		3639	330743.6	6245307.7	17.8	58.2	15.1	2.7	SPIRE	5127	11.0 East	1.45%	El and Lt Pole	Dec 21	N
		3643	329543.5	6249215.9	73.7	241.8	64.0	9.7	SPIRE	9207	263.9 West	1.39%	Church Spire	Dec 21	N
		3645	329593.5	6249220.9	71.9	236.1	63.9	8.0	ANTEN	9200	214.0 West	1.36%	Lightning Conductor	Dec 21	N
35	60	3655	330647.3	6245141.7	24.1	78.9	13.4	10.6	BLDG	4988	120.7 West	2.34%	Sign	Nov 21	N
		3657	329631.9	6248360.1	60.9	199.7	53.8	7.1	BLDG	8353	373.5 West	1.36%	Flat Conc Roof	Dec 21	N
		3659	329735.0	6248558.5	61.1	200.6	55.8	5.3	ANTEN	8523	227.7 West	1.32%	TV Antenna	Dec 21	N
51	76	3665	330627.6	6247582.1	60.8	199.4	42.0	18.8	TREE	7368	418.0 East	1.77%	Gum Tree	Mar 22	N
		3667	330649.5	6245215.9	23.9	78.4	14.3	9.6	SPIRE	5060	101.6 West	2.16%	Elec Pole	Dec 21	N
47	71	3673	330728.2	6245416.7	28.6	93.8	16.4	12.2	BLDG	5237	20.9 East	2.23%	Building	Nov 21	N
		3681	329700.0	6248179.1	62.1	203.7	51.5	10.6	TREE	8161	348.5 West	1.46%	Silky Oak Tree	Dec 21	N
	55	3687	330678.9	6245015.8	20.1	65.9	11.8	8.3	ANTEN	4858	118.8 West	2.22%	TV Antenna	Nov 21	N
		3691	330689.4	6244988.3	18.2	59.7	11.5	6.7	BLDG	4829	114.8 West	2.06%	Roof Pitch (G.I. Edge of conc.)	Nov 21	N
		3697	330957.7	6245095.7	19.0	62.2	12.0	6.9	SPIRE	4872	171.0 East	2.05%	Elec Pole (Steel)	Dec 21	N
		3703	330948.2	6244901.4	13.2	43.3	9.8	3.4	SPIRE	4685	117.3 East	1.74%	Elec Pole with Light	Nov 21	N
		3705	330973.7	6244909.9	14.7	48.2	9.8	4.9	SPIRE	4688	144.0 East	1.97%	Elec Pole with Light	Nov 21	N
		3707	330931.9	6244944.9	13.9	45.7	10.3	3.6	SPIRE	4731	111.3 East	1.73%	Elec Pole with Light	Nov 21	N
		3709	330908.7	6244934.8	13.4	43.9	10.3	3.1	SPIRE	4727	86.4 East	1.66%	Elec Pole with Light	Nov 21	N
		3711	330870.0	6244966.8	13.9	45.7	10.8	3.2	SPIRE	4767	56.1 East	1.64%	Elec Pole with Light	Nov 21	N
		3713	330833.4	6244998.1	13.9	45.7	11.2	2.7	SPIRE	4806	27.6 East	1.56%	Elec Pole with Light	Nov 21	N
		3715	330796.5	6245031.1	13.8	45.4	11.7	2.1	SPIRE	4846	0.8 West	1.47%	Elec Pole with Light	Nov 21	N
		3745	330727.9	6244760.1	13.0	42.7	8.7	4.3	TERRN	4598	129.5 West	1.98%	Natural Surface	Dec 21	Y
		3747	330792.7	6244782.4	10.0	32.8	8.8	1.2	TERRN	4605	61.3 West	1.42%	Natural Surface	Nov 21	Y
		3757	330974.8	6244275.2	3.4	11.2	2.4	1.0	ANTEN	4069	0.0 West	7.20%	Antenna	Nov 21	Y
		3758	330294.6	6247814.6	57.8	189.7	45.6	12.2	TREE	7671	147.0 East	1.54%	Tree	Dec 21	N
		3760	330201.5	6247925.2	57.4	188.3	47.1	10.3	TREE	7799	81.7 East	1.47%	Tree	Dec 21	N
		3764	330291.9	6247954.1	59.6	195.4	47.2	12.3	TREE	7807	176.3 East	1.53%	Tree	Dec 21	N
		3766	330580.1	6247781.7	59.4	194.8	44.4	15.0	TREE	7573	417.4 East	1.62%	Tree	Dec 21	N
		3767	330926.4	6244367.3	4.6	15.1	3.6	1.0	SPIRE	4170	26.1 West	2.06%	Obstruction Light (Lit 2/2)	Nov 21	Y
		3768	330622.5	6247757.3	61.2	200.8	44.0	17.2	TREE	7540	453.1 East	1.69%	Tree	Nov 21	N
		3769	330977.2	6244379.7	4.6	15.1	3.6	1.0	SPIRE	4171	26.2 East	2.04%	Obstruction Light (Lit 2/2)	Nov 21	Y
		3770	330407.2	6247649.6	54.1	177.5	43.4	10.7	TREE	7484	218.9 East	1.51%	Tree	Dec 21	N
		3775	330704.1	6245315.0	23.3	76.5	15.3	8.1	SPIRE	5144	25.8 West	1.94%	Sewer Vent	Dec 21	N
50	75	3778	330726.3	6247444.5	55.8	183.1	40.1	15.7	TREE	7212	482.7 East	1.70%	Tree	Mar 22	N
		3779	330671.4	6245394.9	21.4	70.1	16.3	5.1	SPIRE	5229	39.3 West	1.63%	Elec Pole	Dec 21	N
		3781	330639.3	6245455.8	19.9	65.2	17.1	2.8	SPIRE	5295	56.7 West	1.42%	Elec Pole	Dec 21	N
		3783	330707.5	6245389.9	25.9	84.9	16.1	9.8	BLDG	5216	5.4 West	2.04%	Chimney	Nov 21	N
		3785	330711.7	6245385.2	25.9	85.1	16.1	9.9	ANTEN	5210	2.4 West	2.05%	Mast/Pylon	Nov 21	N
		3789	330790.4	6245519.4	27.7	91.0	17.4	10.3	BLDG	5323	105.0 East	2.01%	Column with Vent Cover	Nov 21	N
		3795	330170.0	6246371.6	30.3	99.4	29.1	1.2	TREE	6294	304.1 West	1.25%	Norfolk Pine Tree	Dec 21	N

2021 RWY 34L Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	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	metres		metres	metres	%			
		3827	330392.7	6247836.6	51.8	170.1	45.6	6.3	ANTEN	7670	247.6 East	1.37%	TV Antenna	Dec 21	N
		3829	330399.9	6247823.4	51.9	170.3	45.4	6.5	ANTEN	7655	251.6 East	1.38%	TV Antenna	Dec 21	N
56	81	3831	329539.1	6247986.8	71.2	233.6	49.7	21.5	ANTEN	8011	549.1 West	1.74%	Antenna on Building (White)	Mar 22	N
		3833	330836.7	6244385.6	5.7	18.8	4.1	1.7	MOVG	4208	109.2 West	2.28%	Perimeter Road Crown (plus 3.6m)	Dec 21	Y
		3835	330943.1	6244410.2	5.7	18.6	4.0	1.6	MOVG	4208	0.0 West	2.24%	Perimeter Road Crown (plus 3.6m)	Dec 21	Y
		3837	331049.3	6244435.3	5.7	18.8	4.0	1.7	MOVG	4208	109.1 East	2.27%	Perimeter Road Crown (plus 3.6m)	Dec 21	Y
		3863	329948.1	6247717.4	58.3	191.3	45.4	12.9	TREE	7655	212.5 West	1.56%	Tree	Dec 21	N
		3865	329725.7	6248098.2	61.0	200.0	50.5	10.5	TREE	8077	342.0 West	1.46%	Tree	Dec 21	N
		3888	330744.8	6245236.8	19.9	65.4	14.2	5.7	ANTEN	5058	4.1 West	1.77%	Mobile phone aerial	Dec 21	N
		3889	330742.1	6245238.8	20.6	67.5	14.3	6.3	ANTEN	5061	6.2 West	1.82%	Mobile phone aerial	Dec 21	N
		3890	330744.4	6245240.8	18.1	59.4	14.3	3.8	ANTEN	5062	3.5 West	1.58%	Mobile phone aerial	Dec 21	N
		3891	330760.1	6245257.9	20.5	67.4	14.5	6.1	ANTEN	5075	15.6 East	1.80%	Mobile phone aerial	Dec 21	N
		3892	330762.1	6245260.1	20.7	67.8	14.5	6.2	ANTEN	5077	18.1 East	1.81%	Mobile phone aerial	Dec 21	N
		3894	330761.3	6245253.9	19.0	62.2	14.4	4.6	BLDG	5071	15.9 East	1.65%	Shed on Roof Princes Hwy	Dec 21	N
		3901	330711.9	6245434.9	28.4	93.3	16.7	11.8	SPIRE	5258	9.2 East	2.18%	Sewer Vent on Railway Line	Nov 21	N
		3902	330626.6	6245444.3	28.5	93.7	17.0	11.6	TREE	5287	71.7 West	2.14%	Tree	Nov 21	N
		3903	330617.0	6245454.5	21.4	70.2	17.1	4.3	BLDG	5299	78.7 West	1.54%	Corner of building	Dec 21	N
		3904	330504.2	6245642.2	28.5	93.6	19.6	8.9	TREE	5508	145.6 West	1.81%	Tree	Dec 21	N
		3907	329948.0	6247793.1	58.9	193.2	46.3	12.6	TREE	7729	195.3 West	1.54%	Tree	Dec 21	N
	54	3988	330659.6	6245005.3	19.4	63.8	11.8	7.7	SPIRE	4852	139.9 West	2.16%	Vent atop building	Nov 21	N
		3989	330603.8	6245123.5	21.9	72.0	13.3	8.6	SPIRE	4980	167.2 West	2.13%	Light Pole	Nov 21	N
38	63	3991	330855.1	6245357.6	26.3	86.4	15.4	11.0	TREE	5151	131.0 East	2.20%	Tree	Nov 21	N
		3996	330834.2	6244392.5	6.1	19.9	4.1	1.9	MOVG	4216	110.1 West	2.38%	Road surface plus 4.3m as per RMS instructions (plus 4.3m)	Dec 21	Y
		3997	330941.3	6244417.7	6.1	19.9	4.1	1.9	MOVG	4216	0.0 East	2.37%	Road surface plus 4.3m as per RMS instructions (plus 4.3m)	Dec 21	Y
		3998	331048.0	6244443.4	6.0	19.8	4.1	1.9	MOVG	4216	109.7 East	2.35%	Road surface plus 4.3m as per RMS instructions (plus 4.3m)	Dec 21	Y
		4461	330688.0	6245049.7	19.6	64.4	12.2	7.4	TREE	4889	102.1 West	2.09%	Tree	Dec 21	N
		4462	330627.5	6245072.9	19.7	64.7	12.7	7.1	BLDG	4925	155.7 West	2.01%	SW corner 'The Good Guys' building	Dec 21	N
	56	4463	330595.5	6245038.3	20.8	68.4	12.3	8.5	BLDG	4899	194.7 West	2.20%	Vent on eastern side of Decathlon Sports Warehouse	Nov 21	N
		4465	330588.3	6245084.2	20.1	66.1	12.9	7.2	BLDG	4945	191.3 West	2.01%	Air conditioning unit atop 'The Good Guy' building	Dec 21	N
41	66	4467	330617.9	6245353.7	27.5	90.2	16.0	11.5	TREE	5201	100.9 West	2.20%	Tree	Nov 21	N
		4731	330929.1	6245048.1	17.7	58.1	11.5	6.2	BLDG	4832	132.2 East	1.99%	Shipping container	Nov 21	N
	50	4785	330683.9	6244956.7	19.9	65.2	11.1	8.7	TREE	4799	127.4 West	2.37%	Tree	Nov 21	N
		4787	330713.3	6245403.3	24.6	80.7	16.3	8.3	SPIRE	5227	3.4 East	1.91%	Flood Light	Dec 21	N
		4788	330644.1	6246185.9	37.2	122.2	25.6	11.6	ANTEN	6005	114.9 East	1.80%	Mobile Phone Tower	Dec 21	N
		4789	330427.3	6247727.4	54.2	178.0	44.2	10.0	TREE	7555	256.2 East	1.49%	Tree	Dec 21	N
	48	4945	330748.1	6244960.1	17.9	58.9	11.0	6.9	TREE	4788	64.0 West	2.14%	Tallest of a grove of trees	Nov 21	N
		5269	329740.2	6247669.8	54.7	179.3	45.4	9.2	BLDG	7656	425.7 West	1.46%	House	Dec 21	N
		5270	329822.9	6247675.2	56.2	184.3	45.3	10.9	BLDG	7643	344.0 West	1.50%	House	Dec 21	N
		5271	329724.1	6247743.3	57.5	188.8	46.3	11.2	BLDG	7732	424.7 West	1.50%	House	Dec 21	N
		5312	329658.7	6247605.4	56.1	184.1	44.9	11.2	TREE	7612	519.8 West	1.51%	Tree	Dec 21	N
		5313	329709.4	6247669.7	64.1	210.4	45.5	18.6	TREE	7663	455.8 West	1.72%	Tree	Nov 21	N
		5314	329734.9	6247613.3	57.2	187.7	44.8	12.4	TREE	7603	443.9 West	1.55%	Tree	Dec 21	N
		5315	329838.9	6247586.7	55.8	183.2	44.2	11.6	TREE	7553	348.7 West	1.53%	Tree	Dec 21	N
		5317	329836.9	6247629.8	56.0	183.7	44.7	11.3	TREE	7595	340.8 West	1.52%	Tree	Dec 21	N
		5318	329811.9	6247751.8	59.9	196.6	46.2	13.7	TREE	7720	337.2 West	1.57%	Tree	Dec 21	N
		5319	329869.9	6247811.6	57.5	188.6	46.7	10.8	TREE	7765	267.1 West	1.49%	Tree	Dec 21	N
		5320	329987.8	6247831.1	58.8	193.0	46.6	12.2	TREE	7757	147.9 West	1.53%	Tree	Dec 21	N
		5321	329949.8	6247825.2	60.4	198.2	46.7	13.7	TREE	7760	186.2 West	1.57%	Tree	Dec 21	N
		5419	330818.1	6244524.9	8.7	28.4	5.7	2.9	TREE	4348	95.4 West	2.19%	Shrub	Nov 21	Y
17	23	5422	330774.4	6244586.3	12.6	41.4	6.6	6.0	TREE	4418	123.9 West	2.85%	Shrub	Mar 22	Y

2021 RWY 34L Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	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	metres		metres	metres	%			
18	24	5423	330794.9	6244596.5	12.6	41.5	6.6	6.0	TREE	4423	101.6 West	2.82%	Shrub	Mar 22	Y
15	21	5424	330802.8	6244578.3	12.0	39.5	6.4	5.6	TREE	4404	98.1 West	2.80%	Shrub	Nov 21	Y
		5425	330838.7	6244573.7	9.9	32.6	6.2	3.7	TREE	4391	64.2 West	2.29%	Shrub	Nov 21	Y
14	20	5430	330771.8	6244565.1	11.9	39.2	6.3	5.6	TREE	4398	131.3 West	2.83%	Shrub	Nov 21	Y
23	29	5433	330752.6	6244619.7	13.6	44.7	7.0	6.6	TREE	4456	137.6 West	2.84%	Shrub	Mar 22	Y
	1	5469	330891.8	6244238.7	2.7	9.0	2.2	0.6	SPIRE	4053	89.1 West	142.59%	Frangible bollard	Nov 21	Y
		5471	330959.7	6244522.9	7.1	23.4	5.3	1.8	SPIRE	4314	42.0 East	1.90%	Floodlight	Nov 21	Y
		5472	330992.7	6244598.6	8.5	28.0	6.1	2.4	SPIRE	4380	91.4 East	1.94%	Floodlight	Nov 21	Y
21	27	5475	330784.1	6244612.5	12.8	41.9	6.8	5.9	TREE	4441	108.5 West	2.73%	Shrub	Dec 21	Y
26	32	5476	330779.8	6244684.7	13.5	44.4	7.7	5.8	TREE	4513	96.2 West	2.46%	Shrub	Nov 21	Y
	42	5477	330799.1	6244787.6	15.3	50.2	8.9	6.5	TREE	4608	53.8 West	2.36%	Shrub	Nov 21	Y
		5478	330811.0	6245456.5	26.1	85.6	16.6	9.4	TREE	5257	110.7 East	1.98%	Palm Tree	Dec 21	N
44		5479	330702.2	6245382.6	27.0	88.6	16.1	10.9	TREE	5210	12.1 West	2.14%	Tree	Nov 21	N
		5480	330637.6	6245550.5	29.7	97.3	18.2	11.5	TREE	5388	36.6 West	2.06%	Tree	Nov 21	N
		5481	330641.6	6245652.3	30.4	99.7	19.4	11.0	TREE	5486	9.5 West	1.97%	Tree	Dec 21	N
	47	5801	330752.5	6244960.1	17.2	56.5	11.0	6.2	TREE	4787	59.8 West	2.05%	Tree	Nov 21	N
		5802	330757.9	6244965.7	16.6	54.5	11.0	5.6	TREE	4791	53.3 West	1.95%	Tree	Nov 21	N
		5804	330781.0	6244838.6	14.1	46.2	9.5	4.6	MOVG	4662	59.9 West	1.95%	Road surface	Dec 21	N
	39	5807	330798.5	6244763.6	14.1	46.4	8.6	5.6	TREE	4585	59.9 West	2.25%	Shrub	Nov 21	Y
29	35	5808	330813.6	6244716.3	14.3	46.8	8.0	6.3	TREE	4536	56.1 West	2.50%	Shrub	Nov 21	Y
19	25	5809	330844.6	6244609.3	10.9	35.9	6.6	4.3	TREE	4424	50.3 West	2.35%	Shrub	Nov 21	Y
20	26	5847	330806.1	6244609.5	12.7	41.7	6.8	6.0	TREE	4433	87.7 West	2.77%	Shrub	Nov 21	Y
27	33	5849	330744.5	6244683.2	14.1	46.2	7.8	6.3	TREE	4519	130.9 West	2.55%	Shrub	Dec 21	Y
30	36	5850	330803.1	6244722.4	14.0	46.0	8.1	5.9	TREE	4544	64.9 West	2.41%	Palm Tree	Nov 21	Y
	40	5851	330786.7	6244769.8	15.1	49.5	8.7	6.4	TREE	4594	70.1 West	2.38%	Shrub	Nov 21	Y
		5852	330748.1	6244841.1	15.6	51.1	9.6	6.0	TREE	4672	91.3 West	2.16%	Tree	Nov 21	N
	52	5883	330706.4	6244970.1	18.5	60.6	11.2	7.2	TREE	4807	102.4 West	2.16%	Tree	Nov 21	N
		5884	330727.1	6244986.1	17.2	56.4	11.4	5.8	TREE	4818	78.6 West	1.96%	Tree	Dec 21	N
		5885	330736.5	6244994.9	17.0	55.7	11.4	5.5	TREE	4825	67.4 West	1.92%	Tree	Dec 21	N
		5886	330827.7	6245163.9	20.4	67.0	13.2	7.2	BLDG	4968	60.0 East	1.99%	Shipping container	Dec 21	N
		5887	330750.2	6245229.7	22.5	73.7	14.1	8.3	ANTEN	5050	0.4 West	2.03%	Aerial atop building	Nov 21	N
		5888	330682.4	6245412.8	25.4	83.4	16.5	8.9	SPIRE	5244	24.6 West	1.95%	Floodlight	Dec 21	N
		5889	330703.3	6245423.4	26.5	86.9	16.5	10.0	SPIRE	5249	1.8 West	2.03%	Floodlight	Nov 21	N
		5890	330691.2	6245437.2	26.3	86.4	16.7	9.6	SPIRE	5265	10.4 West	1.99%	Floodlight	Dec 21	N
		5891	330677.0	6245453.4	25.6	84.1	17.0	8.7	SPIRE	5284	20.5 West	1.90%	Floodlight	Dec 21	N
		5892	330656.2	6245510.5	27.9	91.5	17.7	10.2	TREE	5345	27.7 West	1.99%	Tree	Dec 21	N
33		5950	330687.9	6244788.4	19.6	64.4	9.2	10.5	SPIRE	4635	161.9 West	3.00%	Pole	Nov 21	N
		5952	330774.6	6244858.6	19.5	64.0	9.7	9.8	SPIRE	4683	61.5 West	2.75%	Pole	Nov 21	N
		5954	330707.8	6244911.4	19.0	62.3	10.5	8.5	SPIRE	4750	114.5 West	2.41%	Pole	Nov 21	N
		9434	330728.2	6245054.6	13.4	44.1	12.2	1.3	MOVG	4885	61.8 West	1.35%	Road Crown (plus 4.6m)	Dec 21	N
		9439	330687.0	6245068.0	16.2	53.2	12.4	3.8	MOVG	4907	98.9 West	1.64%	Road Crown (plus 4.6m)	Dec 21	N
		9445	330660.6	6245094.9	16.9	55.5	12.8	4.1	MOVG	4939	118.5 West	1.66%	Road Crown (plus 4.6m)	Dec 21	N
		9447	330646.2	6245111.0	17.1	56.1	13.0	4.0	MOVG	4958	128.8 West	1.65%	Road Crown (plus 4.6m)	Dec 21	N
		9449	330713.2	6245065.7	15.2	49.8	12.3	2.8	MOVG	4899	73.9 West	1.53%	Road Crown (plus 4.6m)	Dec 21	N
		9455	330716.5	6245063.9	14.9	48.8	12.3	2.6	MOVG	4896	71.1 West	1.51%	Road Crown (plus 4.6m)	Dec 21	N
		9456	330771.7	6244834.3	14.9	48.9	9.5	5.4	MOVG	4660	69.9 West	2.09%	Road Crown (plus 4.6m)	Dec 21	N
		9461	330680.0	6245072.5	16.5	54.2	12.5	4.0	MOVG	4913	104.7 West	1.67%	Road Crown (plus 4.6m)	Dec 21	N
		9462	330673.7	6245079.6	16.8	55.0	12.6	4.2	MOVG	4921	109.2 West	1.68%	Road Crown (plus 4.6m)	Dec 21	N
		9463	330695.4	6245065.9	15.8	51.8	12.4	3.4	MOVG	4903	91.2 West	1.60%	Road Crown (plus 4.6m)	Dec 21	N
		9467	330639.6	6245118.5	17.1	56.1	13.2	3.9	MOVG	4967	133.5 West	1.63%	Road Crown (plus 4.6m)	Dec 21	N

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		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	%			
		9477	330653.2	6245102.9	17.0	55.9	12.9	4.1	MOVG	4949	123.8 West	1.66%	Road Crown (plus 4.6m)	Dec 21	N
32	41	9481	330697.9	6244761.2	17.0	55.7	8.8	8.1	MOVG	4606	158.4 West	2.67%	Road Crown (plus 4.6m)	Dec 21	N
		9482	330667.6	6245086.7	16.8	55.2	12.7	4.1	MOVG	4930	113.5 West	1.67%	Road Crown (plus 4.6m)	Dec 21	N
		9486	330741.7	6245038.4	12.5	40.9	11.9	0.5	MOVG	4866	52.4 West	1.26%	Road Crown (plus 4.6m)	Dec 21	N
		9487	330704.0	6245065.7	15.4	50.6	12.4	3.1	MOVG	4901	82.9 West	1.56%	Road Crown (plus 4.6m)	Dec 21	N
		9488	330735.3	6245046.0	13.0	42.5	12.0	0.9	MOVG	4875	56.9 West	1.31%	Road Crown (plus 4.6m)	Dec 21	N
		9491	330723.0	6245059.3	14.1	46.4	12.2	1.9	MOVG	4890	65.8 West	1.43%	Road Crown (plus 4.6m)	Dec 21	N
	53	9494	330814.0	6244874.6	10.4	34.1	9.8	0.6	MOVG	4690	19.5 West	1.29%	Road Crown (plus 4.6m)	Dec 21	N
		9518	330684.1	6244994.9	18.8	61.7	11.6	7.2	SPIRE	4837	118.4 West	2.12%	Vent atop building	Nov 21	N

* Obstacle penetrates by $< 0.05\text{m}$.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34L Takeoff)

(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 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
330978.635	6244258.731	346° 47' 03"	4.270 (14.009)	3962.5	4052.5	2.180 (7.152)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only 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.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	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				%
			MGA94													
1	2	2968	330977.6	6244263.3	4.2	13.9	2.2	2.0	SPIRE	4057	183.3 West	44.02%	HIAL	Mar 22	Y	
2	4	2971	330982.4	6244295.2	4.7	15.5	2.6	2.1	SPIRE	4087	186.1 West	7.38%	HIAL	Mar 22	Y	
3	6	2977	330968.6	6244353.7	5.7	18.8	3.3	2.4	SPIRE	4147	45.4 East	3.75%	HIAL	Mar 22	Y	
4	8	2580	330950.7	6244376.9	6.0	19.5	3.6	2.3	SPIRE	4174	157.1 West	3.10%	Far Field monitor mast (lit)	Mar 22	Y	
5	9	2980	330949.7	6244382.2	6.5	21.3	3.7	2.8	SPIRE	4179	321.6 West	3.39%	HIAL	Mar 22	Y	
6	12	3541	330870.2	6244395.4	7.0	23.1	4.1	3.0	SPIRE	4210	95.0 East	3.08%	Light Pole	Mar 22	Y	
7	13	2981	330942.2	6244413.9	7.1	23.3	4.1	3.0	SPIRE	4212	79.0 East	3.08%	HIAL	Mar 22	Y	
8	14	3000	330935.0	6244444.7	7.5	24.6	4.5	3.0	SPIRE	4244	63.7 East	2.78%	HIAL	Nov 21	Y	
9	15	2982	330927.6	6244476.3	8.0	26.2	4.9	3.1	SPIRE	4276	45.0 East	2.60%	HIAL	Nov 21	N	
10	16	2983	330921.2	6244503.0	8.5	27.9	5.2	3.3	SPIRE	4303	30.2 East	2.52%	HIAL	Nov 21	Y	
11	17	2984	330914.9	6244530.0	9.0	29.6	5.5	3.5	SPIRE	4331	14.7 East	2.45%	HIAL	Nov 21	Y	
12	18	2985	330908.6	6244557.0	9.4	31.0	5.9	3.6	SPIRE	4359	2.3 West	2.37%	HIAL	Nov 21	Y	
13	19	2986	330902.3	6244584.1	9.9	32.5	6.2	3.7	SPIRE	4387	17.7 West	2.31%	HIAL	Nov 21	Y	
14	20	5430	330771.8	6244565.1	11.9	39.2	6.3	5.6	TREE	4398	33.9 West	2.83%	Shrub	Nov 21	Y	
15	21	5424	330802.8	6244578.3	12.0	39.5	6.4	5.6	TREE	4404	48.9 West	2.80%	Shrub	Nov 21	Y	
16	22	2987	330895.9	6244611.0	10.3	33.8	6.5	3.8	SPIRE	4414	66.8 West	2.24%	HIAL	Nov 21	Y	
17	23	5422	330774.4	6244586.3	12.6	41.4	6.6	6.0	TREE	4418	81.7 West	2.85%	Shrub	Mar 22	Y	
18	24	5423	330794.9	6244596.5	12.6	41.5	6.6	6.0	TREE	4423	97.9 West	2.82%	Shrub	Mar 22	Y	
19	25	5809	330844.6	6244609.3	10.9	35.9	6.6	4.3	TREE	4424	108.3 East	2.35%	Shrub	Nov 21	Y	
20	26	5847	330806.1	6244609.5	12.7	41.7	6.8	6.0	TREE	4433	96.2 East	2.77%	Shrub	Nov 21	Y	
21	27	5475	330784.1	6244612.5	12.8	41.9	6.8	5.9	TREE	4441	84.1 East	2.73%	Shrub	Dec 21	Y	
22	28	2988	330889.6	6244638.0	10.7	35.2	6.9	3.9	SPIRE	4442	71.7 East	2.19%	HIAL	Nov 21	Y	
23	29	5433	330752.6	6244619.7	13.6	44.7	7.0	6.6	TREE	4456	59.6 East	2.84%	Shrub	Mar 22	Y	
24	30	2989	330883.3	6244664.7	11.2	36.8	7.2	4.0	SPIRE	4470	47.3 East	2.17%	HIAL	Nov 21	Y	
25	31	2990	330876.8	6244691.9	11.7	38.5	7.5	4.2	SPIRE	4498	35.2 East	2.15%	HIAL	Nov 21	Y	
26	32	5476	330779.8	6244684.7	13.5	44.4	7.7	5.8	TREE	4513	23.1 East	2.46%	Shrub	Nov 21	Y	
27	33	5849	330744.5	6244683.2	14.1	46.2	7.8	6.3	TREE	4519	10.5 East	2.55%	Shrub	Dec 21	Y	
28	34	2991	330870.6	6244719.0	12.3	40.2	7.9	4.4	SPIRE	4525	1.4 West	2.13%	HIAL	Nov 21	Y	
29	35	5808	330813.6	6244716.3	14.3	46.8	8.0	6.3	TREE	4536	13.7 West	2.50%	Shrub	Nov 21	Y	
30	36	5850	330803.1	6244722.4	14.0	46.0	8.1	5.9	TREE	4544	25.9 West	2.41%	Palm Tree	Nov 21	Y	
31	37	2992	330864.2	6244746.0	12.7	41.7	8.2	4.5	SPIRE	4553	38.1 West	2.10%	HIAL	Nov 21	Y	
32	41	9481	330697.9	6244761.2	17.0	55.7	8.8	8.1	MOVG	4606	50.1 West	2.67%	Road Crown (plus 4.6m)	Dec 21	N	
33		5950	330687.9	6244788.4	19.6	64.4	9.2	10.5	SPIRE	4635	62.5 West	3.00%	Pole	Nov 21	N	
34	57	3077	330670.1	6245100.1	24.1	79.1	12.9	11.3	TREE	4942	74.4 West	2.47%	Palm Tree	Mar 22	N	
35	60	3655	330647.3	6245141.7	24.1	78.9	13.4	10.6	BLDG	4988	86.5 West	2.34%	Sign	Nov 21	N	
36	61	1226	330607.5	6245214.0	28.2	92.5	14.4	13.8	TREE	5067	98.9 West	2.56%	TREE	Mar 22	N	
37	62	3430	330688.9	6245311.7	28.0	92.0	15.3	12.8	TREE	5144	111.0 West	2.37%	Tree	Mar 22	N	
38	63	3991	330855.1	6245357.6	26.3	86.4	15.4	11.0	TREE	5151	0.5 East	2.20%	Tree	Nov 21	N	
39	64	3431	330646.2	6245318.9	27.5	90.3	15.5	12.0	TREE	5161	105.8 East	2.29%	Tree	Nov 21	N	
40	65	3432	330641.4	6245335.1	26.5	86.9	15.7	10.8	TREE	5177	96.3 West	2.16%	Tree	Nov 21	N	
41	66	4467	330617.9	6245353.7	27.5	90.2	16.0	11.5	TREE	5201	37.0 West	2.20%	Tree	Nov 21	N	
42	67	3433	330626.3	6245359.5	29.3	96.1	16.0	13.3	TREE	5205	4.7 West	2.35%	Tree	Mar 22	N	

2021 RWY 34L Type A
Significant (Charted) Obstacles

Chart No. (2021)	Chart No. (2020)	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	metres	metres				metres	%
					metres	(feet)	metres	metres		%							
43	68	3435	330656.4	6245371.5	27.2	89.1	16.1	11.1	TREE	5209	37.9 West	2.16%	Tree	Nov 21	N		
44		5479	330702.2	6245382.6	27.0	88.6	16.1	10.9	TREE	5210	147.0 East	2.14%	Tree	Nov 21	N		
45	69	3436	330626.5	6245368.0	29.0	95.0	16.1	12.9	TREE	5213	142.9 West	2.31%	Tree	Mar 22	N		
46	70	3033	330721.1	6245402.1	29.1	95.6	16.2	12.9	TREE	5224	192.2 West	2.30%	Palm Tree	Mar 22	N		
47	71	3673	330728.2	6245416.7	28.6	93.8	16.4	12.2	BLDG	5237	80.8 West	2.23%	Building	Nov 21	N		
48	72	3032	330596.2	6245406.3	31.0	101.7	16.6	14.4	TREE	5257	32.9 West	2.39%	Tree	Mar 22	N		
49	73	3577	330786.2	6245484.1	29.7	97.4	17.0	12.7	SPIRE	5289	8.8 East	2.22%	Sewer Vent	Mar 22	N		
50	75	3778	330726.3	6247444.5	55.8	183.1	40.1	15.7	TREE	7212	37.5 East	1.70%	Tree	Mar 22	N		
51	76	3665	330627.6	6247582.1	60.8	199.4	42.0	18.8	TREE	7368	66.2 East	1.77%	Gum Tree	Mar 22	N		
52	77	1798	330653.4	6247743.0	63.0	206.7	43.8	19.2	TREE	7519	102.1 East	1.75%	Tree - Norfolk	Mar 22	N		
53	78	3449	330032.1	6247615.7	64.8	212.5	44.0	20.8	ANTEN	7537	29.5 East	1.80%	Lightning Rod	Mar 22	N		
54	79	3443	329618.2	6247740.2	69.5	227.9	46.6	22.9	TREE	7753	0.9 East	1.82%	Gum Tree Group	Mar 22	N		
55	80	3459	329612.2	6247971.2	70.3	230.7	49.3	21.0	SPIRE	7979	168.2 East	1.74%	Flag Pole on Clock Tower	Mar 22	N		
56	81	3831	329539.1	6247986.8	71.2	233.6	49.7	21.5	ANTEN	8011	187.6 East	1.74%	Antenna on Building (White)	Mar 22	N		

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34L Takeoff)

(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 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin	
<u>Easting</u>	<u>Northing</u>					(m)	(ft)
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)		
330978.635	6244258.731	346° 47' 03"	4.270 (14.009)	3962.5	4052.5	2.180	(7.152)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

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.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

New Obstacles
(Obstacles newly reflected on Type A Charts - 2021 Survey)

Chart No. (2021)	Chart No. (2020)	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)	metres	metres		metres	metres	%	
44		5479	330702.2	6245382.6	27.0	88.6	16.1	10.9	TREE	5210	147.0 East	2.14%	Tree
33		5950	330687.9	6244788.4	19.6	64.4	9.2	10.5	SPIRE	4635	62.5 West	3.00%	Pole

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 - 2020 Survey)													
Chart No. (2021)	Chart No. (2020)	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)	metres	metres		metres	metres	%	
	59	1229	330579.5	6245117.6	22.1	72.4	13.3	8.8	SPIRE	4980	192.2 West	2.14%	LIGHT POLE
	49	2100	330692.7	6244950.4	17.9	58.7	11.0	6.8	SPIRE	4791	120.2 West	2.13%	Vent
	51	2102	330677.9	6244957.1	18.1	59.3	11.2	6.9	SPIRE	4801	133.1 West	2.12%	Vent
	7	2578	330895.2	6244363.8	5.9	19.2	3.6	2.2	ANTEN	4174	57.2 West	3.03%	Far field monitor mast
	3	2969	330959.1	6244289.7	4.7	15.5	2.6	2.1	SPIRE	4087	12 West	7.34%	HIAL
	5	2975	330957.0	6244350.9	5.7	18.8	3.3	2.4	SPIRE	4147	0 East	3.74%	HIAL
	38	2993	330857.9	6244773.0	13.1	43.1	8.5	4.6	SPIRE	4581	0 East	2.07%	HIAL
	43	2994	330851.5	6244800.0	13.7	44.9	8.9	4.8	SPIRE	4609	0 East	2.07%	HIAL
	45	3292	330743.9	6244795.2	15.2	49.7	9.1	6.1	SPIRE	4629	105.9 West	2.25%	Traffic Sign
	46	3411	330743.5	6244796.1	15.2	50.0	9.1	6.1	SPIRE	4629	106 West	2.26%	Traffic sign
	44	3414	330714.3	6244782.3	15.0	49.2	9.0	6.0	SPIRE	4623	137.7 West	2.25%	Traffic sign
	58	3423	330624.8	6245125.9	22.4	73.4	13.3	9.1	TREE	4978	146.2 West	2.18%	Tree
	10	3517	331012.4	6244428.6	6.8	22.2	4.1	2.7	SPIRE	4210	71.7 East	2.92%	Light Pole
	11	3545	330846.5	6244389.6	6.9	22.7	4.1	2.9	SPIRE	4210	98.8 West	3.01%	Light Pole
	55	3687	330678.9	6245015.8	20.1	65.9	11.8	8.3	ANTEN	4858	118.8 West	2.22%	TV Antenna
	74	3793	330781.5	6246090.9	37.0	121.4	24.1	12.9	ANTEN	5881	226.9 East	1.90%	Mobile Phone Tower
	54	3988	330659.6	6245005.3	19.4	63.8	11.8	7.7	BLDG	4852	139.9 West	2.16%	Vent atop building
	56	4463	330595.5	6245038.3	20.8	68.4	12.3	8.5	BLDG	4899	194.7 West	2.20%	Vent on eastern side of Decathlon Sports Warehouse
	50	4785	330683.9	6244956.7	19.9	65.2	11.1	8.7	TREE	4799	127.4 West	2.37%	Tree
	48	4945	330748.1	6244960.1	17.9	58.9	11.0	6.9	TREE	4788	64 West	2.14%	Tallest of a grove of trees
	1	5469	330891.8	6244238.7	2.7	9.0	2.2	0.6	SPIRE	4053	89.1 West	142.59%	Frangible bollard
	42	5477	330799.1	6244787.6	14.9	48.8	8.9	6.0	TREE	4608	53.8 West	2.29%	Shrub
	47	5801	330752.5	6244960.1	17.2	56.5	11.0	6.2	TREE	4787	59.8 West	2.05%	Tree
	39	5807	330798.5	6244763.6	13.2	43.3	8.6	4.6	TREE	4585	59.9 West	2.07%	Shrub
	40	5851	330786.7	6244769.8	15.1	49.5	8.7	6.4	TREE	4594	70.1 West	2.38%	Shrub
	52	5883	330706.4	6244970.1	18.5	60.6	11.2	7.2	TREE	4807	102.4 West	2.16%	Tree
	53	9518	330684.1	6244994.9	18.8	61.7	11.6	7.2	BLDG	4837	118.4 West	2.12%	Vent atop building

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.