

## Palmerston North International Airport

## OBSTACLE CLEARANCE DATA

Obstacles surveyed : July 2002 by or under the supervision of Colin Fink Registered Surveyor

Last updated: 23 October 2002

APPROACH/TAKEOFF SURFACE OBSTRUCTIONS - RWY07										Grade % to Obstacle from			Distance
Obstacle ID	Distance from SOT (m)	Offset		Elev AMSL			Obstacle			End CLWY	1686m SOT (1:62.5)	1882m SOT (1:50)	Distance From Fan Origin (m)
		from CL (m)	L or R	Gnd (m)	Obst (m)	Surface (m)	Height (m)	Penetrat'n (m)	Description				
PMT1011	2005.2	(70.2)	R	44.6	47.6	48.0	3.0	(0.4)	END OF PINE & GUM SHELTER BELT	3.5	0.5	1.2	43.2
PMT1013	2026.2	(60.2)	R	45.4	49.0	48.4	3.6	0.6	PINE	4.5	0.9	2.0	64.2
PMT1142	2066.2	(33.2)	R	46.6	49.8	49.2	3.2	0.6	PINE	3.6	1.0	2.0	104.2
PMT1020	2072.2	(11.2)	R	45.8	49.8	49.4	4.0	0.4	GUM	3.4	1.0	1.9	110.2
PMT1091	2081.2	(71.2)	R	46.9	50.1	49.5	3.2	0.6	PINE	3.4	1.0	2.0	119.2
PMT1092	2086.2	(78.2)	R	47.0	50.2	49.6	3.2	0.6	GUM	3.3	1.0	2.0	124.2
PMT1090	2107.2	(45.2)	R	46.5	50.5	50.1	4.0	0.4	PINE	3.0	1.0	2.0	145.2
PMT1089	2116.2	(38.2)	R	46.8	50.6	50.2	3.8	0.4	PINE	2.9	1.0	1.9	154.2
PMT1118	2125.2	(65.2)	R	47.5	51.0	50.4	3.5	0.6	PINE	3.0	1.1	2.0	163.2
PMT1022	2133.2	44.8	L	47.8	51.1	50.6	3.3	0.5	GUM & CYPRESS SHELTER BELT	2.9	1.1	2.0	171.2
PMT1237	2148.2	(29.2)	R	47.2	51.3	50.9	4.1	0.4	PINE	2.8	1.1	2.0	186.2
PMT1023	2154.2	60.8	L	47.8	51.3	51.0	3.5	0.3	GUM & CYPRESS SHELTER BELT	2.7	1.1	1.9	192.2
PMT1236	2157.2	(18.2)	R	46.5	51.0	51.1	4.5	(0.1)	PINE	2.5	1.0	1.8	195.2
PMT1121	2162.1	(97.2)	R	48.3	51.3	51.2	3.0	0.1	COPROSMA	2.6	1.1	1.9	200.1
PMT1086	2175.2	(14.2)	R	47.5	52.0	51.4	4.5	0.6	PINE SHELTER BELT	2.8	1.2	2.0	213.2
PMT1085	2178.2	(54.2)	R	47.9	52.0	51.5	4.1	0.5	PINE SHELTER BELT	2.7	1.2	2.0	216.2
PMT1235	2184.2	17.8	L	48.1	51.9	51.6	3.8	0.3	PINE	2.6	1.2	1.9	222.2
PMT1230	2196.2	29.8	L	48.2	52.3	51.8	4.1	0.5	PINE	2.6	1.2	2.0	234.2
PMT1231	2200.2	55.7	L	47.9	52.4	51.9	4.5	0.5	PINE	2.6	1.2	2.0	238.2
PMT1229	2205.2	38.7	L	48.1	52.2	52.0	4.1	0.2	PINE	2.5	1.2	1.9	243.2
PMT1076	2211.1	(106.3)	R	47.8	52.1	52.1	4.3	(0.0)	PINE	2.4	1.1	1.8	249.1
PMT1084	2212.2	(77.3)	R	48.5	52.7	52.2	4.2	0.5	PINE	2.6	1.3	2.0	250.2
PMT1083	2212.2	(49.3)	R	47.9	52.5	52.2	4.6	0.3	PINE	2.6	1.2	1.9	250.2
PMT1081	2215.2	(62.3)	R	48.5	52.8	52.2	4.3	0.6	PINE	2.6	1.3	2.0	253.2
PMT1228	2215.2	45.7	L	48.0	52.2	52.2	4.2	(0.0)	PINE	2.4	1.2	1.8	253.2
PMT1077	2216.1	(90.3)	R	48.7	52.8	52.2	4.1	0.6	WILLOWS & GUMS	2.6	1.3	2.0	254.1
PMT1191	2216.2	(16.3)	R	48.4	52.7	52.2	4.3	0.5	PINE	2.6	1.2	2.0	254.2
PMT1190	2221.2	(5.3)	R	48.6	52.9	52.3	4.3	0.6	PINE	2.6	1.3	2.0	259.2
PMT1189	2226.2	4.7	L	48.6	53.0	52.4	4.4	0.6	PINE	2.6	1.3	2.0	264.2
PMT2090	2228.2	(69.8)	R	48.6	52.8	52.5	4.2	0.3	Pine	2.5	1.2	1.9	266.2
PMT1227	2228.2	57.7	L	47.7	51.9	52.5	4.2	(0.6)	PINE	2.2	1.1	1.7	266.2
PMT1188	2233.2	14.7	L	48.6	53.0	52.6	4.4	0.4	PINE	2.5	1.3	2.0	271.2
PMT1078	2234.2	(75.3)	R	48.6	52.9	52.6	4.3	0.3	WILLOWS	2.5	1.2	1.9	272.2
PMT1157	2238.1	(99.3)	R	49.0	53.2	52.7	4.2	0.5	PINES	2.6	1.3	2.0	276.1
PMT1187	2241.2	24.7	L	48.8	53.3	52.7	4.5	0.6	PINE	2.6	1.3	2.0	279.2
PMT1224	2241.2	69.7	L	46.9	51.4	52.7	4.5	(1.3)	PINE	1.9	1.0	1.5	279.2
PMT1070	2247.1	(109.3)	R	49.1	53.4	52.9	4.3	0.5	PINE	2.6	1.3	2.0	285.1
PMT1158	2247.1	(89.3)	R	49.1	53.4	52.9	4.3	0.5	PINES	2.6	1.3	2.0	285.1

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		from CL (m)	L or R	Gnd (m)	Obst (m)	Surface (m)							
PMT1186	2248.2	33.7	L	48.4	52.9	52.9	4.5	0.0	PINE	2.4	1.2	1.9	286.2
PMT1159	2254.1	(83.3)	R	49.1	53.4	53.0	4.3	0.4	PINE	2.5	1.3	2.0	292.1
PMT1185	2255.2	43.7	L	48.2	52.5	53.0	4.3	(0.5)	PINE	2.2	1.1	1.7	293.2
PMT1069	2262.1	(96.3)	R	49.3	53.7	53.2	4.4	0.5	PINE	2.5	1.3	2.0	300.1
PMT1160	2262.2	(75.3)	R	49.0	53.4	53.2	4.4	0.2	PINE	2.4	1.3	1.9	300.2
PMT1183	2262.2	52.7	L	47.5	52.0	53.2	4.5	(1.2)	PINE	2.0	1.0	1.6	300.2
PMT1204	2265.2	(36.3)	R	49.2	53.6	53.2	4.4	0.4	PINE	2.5	1.3	2.0	303.2
PMT1175	2267.2	31.7	L	48.5	53.4	53.3	4.9	0.1	PINE	2.4	1.3	1.9	305.2
PMT1223	2267.2	97.7	L	42.2	51.2	53.3	9.0	(2.1)	WILLOW	1.7	0.9	1.3	305.2
PMT1199	2270.2	10.7	L	49.0	53.3	53.3	4.3	(0.0)	CONIFER	2.3	1.2	1.9	308.2
PMT1182	2270.2	62.7	L	47.3	51.9	53.3	4.6	(1.4)	PINE	1.9	1.0	1.5	308.2
PMT1174	2272.2	23.7	L	48.6	53.5	53.4	4.9	0.1	PINE	2.4	1.3	1.9	310.2
PMT1176	2272.2	46.7	L	47.9	52.6	53.4	4.7	(0.8)	PINE	2.1	1.1	1.7	310.2
PMT1222	2274.2	105.7	L	43.8	51.3	53.4	7.5	(2.1)	WILLOW	1.7	0.9	1.3	312.2
PMT1161	2275.1	(84.3)	R	49.3	53.8	53.4	4.5	0.4	PINE	2.5	1.3	2.0	313.1
PMT1162	2276.2	(63.3)	R	49.0	53.6	53.4	4.6	0.2	PINE	2.4	1.3	1.9	314.2
PMT1202	2276.2	(7.3)	R	49.3	53.5	53.4	4.2	0.1	PINE	2.4	1.3	1.9	314.2
PMT1200	2278.2	6.7	L	49.0	53.3	53.5	4.3	(0.2)	CONIFER	2.3	1.2	1.8	316.2
PMT1203	2280.2	(18.3)	R	49.3	53.8	53.5	4.5	0.3	PINE	2.4	1.3	1.9	318.2
PMT1173	2280.2	18.7	L	48.8	53.7	53.5	4.9	0.2	WILLOW	2.4	1.3	1.9	318.2
PMT1181	2280.2	61.7	L	47.1	52.0	53.5	4.9	(1.5)	PINE	1.9	1.0	1.5	318.2
PMT1178	2287.2	71.7	L	45.2	50.1	53.7	4.9	(3.6)	PINE	1.2	0.7	1.0	325.2
PMT1172	2288.2	12.7	L	48.9	53.8	53.7	4.9	0.1	WILLOW	2.4	1.3	1.9	326.2
PMT1180	2289.2	83.7	L	44.7	50.2	53.7	5.5	(3.5)	PINE	1.3	0.7	1.0	327.2
PMT1177	2290.2	63.7	L	46.6	51.5	53.7	4.9	(2.2)	PINE	1.6	0.9	1.3	328.2
PMT1163	2291.2	(68.3)	R	49.3	53.7	53.7	4.4	(0.0)	PINE	2.3	1.3	1.9	329.2
PMT1155	2292.1	(120.3)	R	49.7	54.3	53.8	4.6	0.5	PINE	2.5	1.4	2.0	330.1
PMT1165	2293.2	(48.3)	R	49.6	53.4	53.8	3.8	(0.4)	PINE	2.2	1.2	1.8	331.2
PMT1219	2297.2	97.7	L	43.2	50.2	53.9	7.0	(3.7)	WILLOW	1.2	0.7	1.0	335.2
PMT1217	2299.2	105.7	L	43.4	50.4	53.9	7.0	(3.5)	WILLOW	1.3	0.7	1.0	337.2
PMT1154	2300.1	(112.3)	R	49.6	54.4	53.9	4.8	0.5	PINE	2.5	1.4	2.0	338.1
PMT1153	2309.1	(103.3)	R	49.8	54.5	54.1	4.7	0.4	PINE	2.4	1.3	2.0	347.1
PMT1152	2316.1	(95.3)	R	49.8	54.5	54.2	4.7	0.3	PINE	2.4	1.3	1.9	354.1
PMT1239	2316.2	118.7	L	47.3	52.3	54.2	5.0	(1.9)	CONIFER	1.8	1.0	1.4	354.2
PMT1167	2318.2	(31.3)	R	49.7	54.3	54.3	4.6	0.0	PINE	2.3	1.3	1.9	356.2
PMT1241	2319.3	125.7	L	48.4	54.6	54.3	6.2	0.3	CONIFER	2.4	1.3	1.9	357.3
PMT1151	2323.1	(87.3)	R	49.8	54.5	54.4	4.7	0.1	PINE	2.3	1.3	1.9	361.1
PMT1240	2325.2	120.7	L	47.6	54.4	54.4	6.8	(0.0)	CONIFER	2.3	1.3	1.9	363.2
PMT1210	2330.2	44.7	L	48.1	53.6	54.5	5.5	(0.9)	PINE	2.0	1.2	1.7	368.2
PMT1150	2331.2	(78.3)	R	49.9	54.9	54.5	5.0	0.4	PINE	2.4	1.4	2.0	369.2
PMT1211	2337.2	54.7	L	47.2	52.7	54.7	5.5	(2.0)	PINE	1.8	1.0	1.4	375.2
PMT1149	2338.2	(69.3)	R	50.0	54.6	54.7	4.6	(0.1)	PINE	2.3	1.3	1.9	376.2

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		from CL (m)	L or R	Gnd (m)	Obst (m)	Surface (m)							
PMT1171	2338.2	35.7	L	48.6	54.1	54.7	5.5	(0.6)	GUMS & WILLOWS	2.1	1.2	1.8	376.2
PMT1148	2344.2	(60.3)	R	50.1	55.0	54.8	4.9	0.2	PINE	2.3	1.4	1.9	382.2
PMT1212	2344.2	83.7	L	43.3	50.8	54.8	7.5	(4.0)	WILLOWS	1.2	0.7	1.0	382.2
PMT1147	2351.2	(50.3)	R	50.1	55.2	54.9	5.1	0.3	PINE	2.3	1.4	1.9	389.2
PMT1170	2352.2	22.7	L	48.9	54.1	55.0	5.2	(0.9)	WILLOWS & GUMS	2.1	1.2	1.7	390.2
PMT1168	2353.2	2.7	L	49.3	53.4	55.0	4.1	(1.6)	JAPANESE PINES & CONIFERS	1.9	1.1	1.5	391.2
PMT1169	2356.2	17.7	L	48.5	53.8	55.0	5.3	(1.2)	CONIFERS	2.0	1.1	1.6	394.2
PMT1145	2373.2	(22.3)	R	49.7	55.0	55.4	5.3	(0.4)	PINE SHELTER BELT	2.2	1.3	1.8	411.2
PMT1144	2374.2	(7.3)	R	49.1	54.8	55.4	5.7	(0.6)	PINE SHELTER BELT	2.1	1.3	1.8	412.2
PMT1214	2381.2	93.7	L	44.6	52.1	55.5	7.5	(3.4)	WILLOWS	1.4	0.9	1.2	419.2
PMT1215	2385.2	78.7	L	45.0	51.5	55.6	6.5	(4.1)	WILLOWS & PINES	1.3	0.8	1.1	423.2
PMT1262	2388.2	118.7	L	48.6	54.3	55.7	5.7	(1.4)	PINE SHELTER BELT	1.9	1.2	1.6	426.2
PMT1261	2390.3	133.7	L	50.2	56.1	55.7	5.9	0.4	PINE SHELTER BELT	2.3	1.4	2.0	428.3
PMT1288	2411.2	88.6	L	48.9	56.5	56.1	7.6	0.4	WILLOW	2.3	1.4	2.0	449.2
PMU1278	2419.2	3.6	L	48.8	56.1	56.3	7.3	(0.2)	RAIL POWER POLE	2.2	1.4	1.9	457.2
PMU1279	2422.3	126.6	L	49.8	56.9	56.4	7.1	0.5	RAIL POWER POLE	2.3	1.5	2.0	460.3
PMT1276	2431.2	(30.4)	R	50.0	54.4	56.5	4.4	(2.1)	OAK	1.8	1.1	1.5	469.2
PMT1292	2447.2	38.6	L	50.0	57.1	56.9	7.1	0.2	SILVER DOLLAR GUM	2.3	1.4	1.9	485.2
PMT1291	2459.2	22.6	L	50.6	56.6	57.1	6.0	(0.5)	BANKSIA HEDGE	2.1	1.4	1.8	497.2
PMT1289	2461.2	46.6	L	49.7	55.8	57.1	6.1	(1.3)	POPLAR HEDGE	1.9	1.3	1.7	499.2
PMT1290	2464.2	42.6	L	49.7	54.7	57.2	5.0	(2.5)	GOLDEN TOTARA	1.7	1.1	1.5	502.2
PMB1285	2492.2	119.6	L	51.8	59.0	57.8	7.2	1.2	FLUE ON HOUSE (Frangible)	2.4	1.6	2.1	530.2
PMB2104	2492.2	115.0	L	51.8	58.1	57.8	6.3	0.3	Ridgeline on House	2.3	1.5	2.0	530.2
PMT2105	2501.8	50.5	L	46.0	56.0	58.0	10.0	(2.0)	Poplar Plantaion	1.8	1.2	1.6	539.8
PMT1364	2532.2	56.6	L	45.6	53.9	58.6	8.3	(4.7)	WILLOWS & POPLARS	1.4	0.9	1.2	570.2
PMT1365	2580.2	45.6	L	45.3	56.8	59.5	11.5	(2.7)	WILLOW	1.7	1.2	1.5	618.2
PMT1346	2754.2	(80.5)	R	54.1	59.8	63.0	5.7	(3.2)	PLUMS	1.7	1.3	1.6	792.2
PMT1345	2780.1	(172.5)	R	51.2	63.3	63.5	12.1	(0.2)	WILLOWS	2.1	1.6	1.9	818.1
PMT1359	2792.3	183.5	L	54.8	62.8	63.8	8.0	(1.0)	MACROCARPA SHELTER BELT	2.0	1.5	1.8	830.3
PMT1344	2836.1	(165.6)	R	53.7	64.8	64.6	11.1	0.2	WILLOW	2.1	1.6	2.0	874.1
PMT1343	2847.1	(173.6)	R	53.9	65.3	64.9	11.4	0.4	WILLOWS	2.2	1.7	2.0	885.1
PMT1370	2868.1	(180.6)	R	54.0	63.3	65.3	9.3	(2.0)	WILLOW	1.9	1.5	1.7	906.1
PMT1369	2877.1	(187.6)	R	54.2	63.1	65.5	8.9	(2.4)	WILLOW	1.9	1.4	1.7	915.1
PMT1356	2889.3	152.4	L	56.1	63.8	65.7	7.7	(1.9)	WILLOW	1.9	1.5	1.8	927.3
PMT1347	2902.2	(67.6)	R	51.6	64.7	66.0	13.1	(1.3)	WILLOW	2.0	1.5	1.8	940.2
PMT1354	2913.3	174.4	L	55.9	62.6	66.2	6.7	(3.6)	MACROCARPA SHELTER BELT	1.7	1.3	1.6	951.3
PMT1348	2916.2	(82.6)	R	53.5	64.0	66.2	10.5	(2.2)	WILLOW	1.9	1.5	1.7	954.2
PMF1298	2927.2	(49.6)	R	56.6	63.8	66.5	7.2	(2.7)	SOUTHERN AERIAL DMVOR	1.8	1.4	1.7	965.2
PMF1297	2930.2	(35.6)	R	57.0	63.8	66.5	6.8	(2.7)	LIGHTENING ROD DMVOR COMPOUND	1.8	1.4	1.7	968.2
PMF1296	2942.2	(28.6)	R	57.3	63.7	66.8	6.4	(3.1)	NORTHERN AERIAL DMVOR	1.8	1.4	1.7	980.2
PMF1295	2945.2	(46.6)	R	56.9	64.6	66.8	7.7	(2.2)	CENTRE AERIAL DMVOR	1.9	1.5	1.7	983.2
PMT1349	2947.1	(92.6)	R	53.5	63.5	66.9	10.0	(3.4)	WILLOW	1.8	1.4	1.6	985.1

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		from CL (m)	L or R	Gnd (m)	Obst (m)	Surface (m)							
PMT1355	2950.3	204.4	L	55.3	61.5	66.9	6.2	(5.4)	MACROCARPA SHELTER BELT	1.6	1.2	1.4	988.3
PMT1350	2977.1	(114.6)	R	53.5	63.2	67.5	9.7	(4.3)	WILLOWS	1.7	1.3	1.6	1,015.1
PMT1371	3012.1	(121.6)	R	54.3	63.6	68.2	9.3	(4.6)	WILLOWS	1.7	1.3	1.5	1,050.1
PMT1351	3033.1	(128.7)	R	55.5	64.9	68.6	9.4	(3.7)	WILLOWS	1.8	1.4	1.6	1,071.1
PMU1299	3048.2	5.3	L	58.2	67.1	68.9	8.9	(1.8)	POWER POLE	1.9	1.5	1.8	1,086.2
PMT1300	3082.2	50.3	L	55.6	66.2	69.6	10.6	(3.4)	WILLOWS	1.8	1.4	1.7	1,120.2
PMT1372	3083.1	(187.7)	R	58.7	66.0	69.6	7.3	(3.6)	LINE OF 6 WILLOWS	1.8	1.4	1.7	1,121.1
PMT1301	3088.2	69.3	L	55.8	65.8	69.7	10.0	(3.9)	WILLOWS	1.7	1.4	1.6	1,126.2
PMU1302	3115.2	61.3	L	58.0	66.5	70.2	8.5	(3.7)	POWER POLE	1.8	1.4	1.7	1,153.2
PMT1338	3118.1	(132.7)	R	57.6	67.8	70.3	10.2	(2.5)	WILLOWS	1.9	1.5	1.8	1,156.1
PMB1322	3154.1	(92.7)	R	59.6	65.1	71.0	5.5	(5.9)	APEX OF VEHICLE SHED	1.6	1.3	1.5	1,192.1
PMT1326	3163.1	(136.7)	R	59.6	70.5	71.2	10.9	(0.7)	WILLOWS	2.0	1.7	1.9	1,201.1
PMU1303	3170.2	105.3	L	58.3	66.0	71.3	7.7	(5.3)	POWER POLE	1.6	1.3	1.5	1,208.2
PMT1323	3174.1	(98.7)	R	60.2	68.8	71.4	8.6	(2.6)	WILLOW	1.9	1.5	1.8	1,212.1
PMT1321	3175.2	(80.7)	R	60.0	70.6	71.4	10.6	(0.8)	WILLOW	2.0	1.6	1.9	1,213.2
PMT1380	3178.3	215.3	L	54.3	61.6	71.5	7.3	(9.9)	MACROCARPAS	1.3	1.0	1.2	1,216.3
PMT1327	3192.1	(146.7)	R	59.6	69.7	71.8	10.1	(2.1)	WILLOWS	1.9	1.6	1.8	1,230.1
PMT1320	3197.2	(59.7)	R	59.3	65.6	71.9	6.3	(6.3)	WILLOW	1.6	1.3	1.5	1,235.2
PMT1324	3202.1	(110.7)	R	60.5	69.2	72.0	8.7	(2.8)	WILLOWS	1.9	1.5	1.7	1,240.1
PMT1319	3204.2	(54.7)	R	59.8	68.7	72.0	8.9	(3.3)	WILLOW	1.8	1.5	1.7	1,242.2
PMU1335	3219.1	(89.7)	R	60.6	66.8	72.3	6.2	(5.5)	POWER POLE	1.6	1.4	1.5	1,257.1
PMT1381	3224.3	160.3	L	53.0	68.6	72.4	15.6	(3.8)	PINE	1.8	1.5	1.7	1,262.3
PMT1325	3228.1	(136.8)	R	60.6	70.2	72.5	9.6	(2.3)	WILLOWS & PINES	1.9	1.6	1.8	1,266.1
PMT1328	3233.1	(144.8)	R	60.6	69.3	72.6	8.7	(3.3)	LINE OF 6 WILLOWS	1.8	1.5	1.7	1,271.1
PMT1382	3250.3	189.2	L	58.8	69.1	72.9	10.3	(3.8)	PLUMS	1.8	1.5	1.7	1,288.3
PMU1304	3257.2	93.2	L	57.8	67.4	73.1	9.6	(5.7)	POWER POLE	1.6	1.4	1.5	1,295.2
PMU1336	3258.2	(58.8)	R	60.9	67.1	73.1	6.2	(6.0)	POWER POLE	1.6	1.3	1.5	1,296.2
PMT1329	3259.1	(175.8)	R	61.2	66.2	73.1	5.0	(6.9)	MID POINT OF 6 WILLOWS	1.5	1.3	1.5	1,297.1
PMT1330	3290.1	(209.8)	R	61.4	68.0	73.7	6.6	(5.7)	LINE OF 6 WILLOWS	1.6	1.4	1.6	1,328.1
PMT1310	3296.2	32.2	L	60.9	71.3	73.8	10.4	(2.5)	PINES	1.9	1.6	1.8	1,334.2
PMU1305	3297.2	47.2	L	60.8	70.1	73.9	9.3	(3.8)	POWER POLE	1.8	1.5	1.7	1,335.2
PMU1337	3297.2	(27.8)	R	61.3	67.4	73.9	6.1	(6.5)	POWER POLE	1.6	1.3	1.5	1,335.2
PMT1311	3301.2	(31.8)	R	61.4	69.4	73.9	8.0	(4.5)	WILLOWS	1.7	1.4	1.6	1,339.2
PMT1306	3302.2	69.2	L	60.1	71.2	74.0	11.1	(2.8)	MACROCARPAS	1.9	1.6	1.8	1,340.2
PMT1312	3312.2	(43.8)	R	61.4	71.9	74.2	10.5	(2.3)	PINES	1.9	1.6	1.8	1,350.2
PMT1313	3326.2	(57.8)	R	61.7	71.0	74.4	9.3	(3.4)	PINES & WILLOWS	1.8	1.5	1.7	1,364.2
PMT1388	3326.2	42.2	L	61.1	67.6	74.4	6.5	(6.8)	MACROCARPA SHELTER BELT	1.6	1.3	1.5	1,364.2
PMT1314	3329.2	(65.8)	R	61.6	69.9	74.5	8.3	(4.6)	WILLOWS	1.7	1.4	1.6	1,367.2
PMT1331	3330.1	(240.8)	R	62.2	69.5	74.5	7.3	(5.0)	PINE SHELTER BELT	1.7	1.4	1.6	1,368.1
PMU1308	3336.2	3.2	L	61.8	70.8	74.6	9.0	(3.8)	POWER POLE	1.8	1.5	1.7	1,374.2
PMT1315	3357.1	(91.8)	R	62.2	68.9	75.1	6.7	(6.2)	WILLOW	1.6	1.4	1.5	1,395.1
PMT1316	3363.1	(98.8)	R	62.1	70.8	75.2	8.7	(4.4)	WILLOW	1.8	1.5	1.7	1,401.1

APPROACH/TAKEOFF SURFACE OBSTRUCTIONS - RWY07										Grade % to Obstacle from			Distance
Obstacle ID	Distance from SOT (m)	Offset		Elev AMSL			Height (m)	Penetrat'n (m)	Obstacle Description	End CLWY	1686m SOT (1:62.5)	1882m SOT (1:50)	Distance From Fan Origin (m)
		from CL (m)	L or R	Gnd (m)	Obst (m)	Surface (m)							
PMF1309	3365.2	(4.8)	R	62.0	70.7	75.2	8.7	(4.5)	LEAD-IN LIGHT	1.8	1.5	1.7	1,403.2
PMU1387	3376.2	(41.8)	R	62.4	71.6	75.4	9.2	(3.8)	POWER POLE	1.8	1.5	1.7	1,414.2
PMB1415	3379.1	(220.8)	R	62.8	68.8	75.5	6.0	(6.7)	APEX OF SHED	1.6	1.3	1.5	1,417.1
PMT1307	3383.3	136.2	L	60.2	72.2	75.6	12.0	(3.4)	MACROCARPAS	1.8	1.5	1.7	1,421.3
PMT1332	3384.1	(193.8)	R	62.7	71.3	75.6	8.6	(4.3)	PINE SHELTER BELT	1.8	1.5	1.7	1,422.1
PMT1383	3395.2	(81.8)	R	62.7	70.5	75.8	7.8	(5.3)	WILLOWS	1.7	1.4	1.6	1,433.2
PMU1386	3417.1	(86.8)	R	62.9	72.2	76.3	9.3	(4.1)	POWER POLE	1.8	1.5	1.7	1,455.1
PMT1385	3443.1	(89.9)	R	63.1	67.9	76.8	4.8	(8.9)	MACROCARPA SHELTER BELT	1.5	1.2	1.4	1,481.1
PMT1317	3450.1	(133.9)	R	63.0	68.4	76.9	5.4	(8.5)	PINE & WILLOW SHELTER BELT	1.5	1.3	1.4	1,488.1
PMU1318	3457.1	(131.9)	R	63.3	72.6	77.1	9.3	(4.5)	POWER POLE	1.8	1.5	1.7	1,495.1
PMT1384	3461.1	(109.9)	R	63.4	67.8	77.1	4.4	(9.3)	MACROCARPA SHELTER BELT	1.4	1.2	1.4	1,499.1
PMT1426	3464.2	(75.9)	R	63.3	73.4	77.2	10.1	(3.8)	WILLOW	1.8	1.5	1.7	1,502.2
PMU1389	3497.1	(176.9)	R	63.8	73.1	77.9	9.3	(4.8)	POWER POLE	1.8	1.5	1.7	1,535.1
PMT1424	3513.2	(74.9)	R	63.3	73.4	78.2	10.1	(4.8)	MACROCARPAS	1.8	1.5	1.7	1,551.2
PMU1390	3537.1	(221.9)	R	64.3	73.4	78.7	9.1	(5.3)	POWER POLE	1.7	1.5	1.6	1,575.1
PMU1391	3577.1	(266.9)	R	64.7	74.7	79.5	10.0	(4.8)	POWER POLE	1.8	1.5	1.7	1,615.1
PMT1425	3592.2	(4.9)	R	59.0	70.2	79.8	11.2	(9.6)	MACROCARPAS	1.5	1.3	1.4	1,630.2
PMU1409	3881.3	314.9	L	67.0	75.8	85.5	8.8	(9.7)	POWER POLE	1.5	1.4	1.5	1,919.3
PMT1410	3955.3	242.9	L	67.8	70.1	87.0	2.3	(16.9)	WILLOW SHELTER BELT	1.2	1.1	1.2	1,993.3
PMB1402	3970.1	(244.1)	R	67.4	73.9	87.3	6.5	(13.4)	TV AERIAL No128 KELVIN GROVE RD	1.4	1.2	1.3	2,008.1
PMU1408	3982.3	200.9	L	68.2	77.1	87.6	8.9	(10.5)	POWER POLE	1.5	1.3	1.5	2,020.3
PMU1405	4080.1	(134.2)	R	69.1	77.9	89.5	8.8	(11.6)	POWER POLE	1.5	1.3	1.4	2,118.1
PMT1403	4085.1	(155.2)	R	69.0	77.1	89.6	8.1	(12.5)	TWISTED PINE	1.5	1.3	1.4	2,123.1
PMT1423	4116.1	(207.2)	R	68.9	76.2	90.2	7.3	(14.0)	GUM	1.4	1.2	1.3	2,154.1
PMT1404	4129.1	(127.2)	R	70.1	79.0	90.5	8.9	(11.5)	PINE	1.5	1.3	1.5	2,167.1
PMU1407	4153.2	8.8	L	70.2	80.4	91.0	10.2	(10.6)	POWER POLE	1.6	1.4	1.5	2,191.2
PMU1406	4209.2	(57.2)	R	71.1	82.0	92.1	10.9	(10.1)	2 POWER POLES	1.6	1.4	1.5	2,247.2
PMT1452	4299.4	331.7	L	71.1	81.3	93.9	10.2	(12.6)	GUM	1.5	1.3	1.5	2,337.4
PMT1451	4362.3	183.7	L	71.9	77.9	95.2	6.0	(17.3)	WILLOWS	1.3	1.2	1.3	2,400.3
PMT1422	4369.1	(212.3)	R	72.0	82.1	95.3	10.1	(13.2)	MACROCARPA	1.5	1.3	1.4	2,407.1
PMT1413	4410.2	66.7	L	72.9	86.3	96.1	13.4	(9.8)	NORFOLK PINE	1.6	1.5	1.6	2,448.2
PMU1412	4426.2	69.7	L	73.1	83.3	96.4	10.2	(13.1)	POWER POLE	1.5	1.4	1.5	2,464.2
PMT1427	4465.2	120.6	L	73.5	83.4	97.2	9.9	(13.8)	TWISTED WILLOW	1.5	1.3	1.4	2,503.2
PMT1428	4503.3	261.6	L	73.3	80.5	98.0	7.2	(17.5)	GUM & WILLOW	1.4	1.2	1.3	2,541.3
PMB1418	4506.1	(271.4)	R	72.9	82.4	98.0	9.5	(15.6)	POLE ON APEX OF HOUSE	1.4	1.3	1.4	2,544.1
PMT1420	4547.1	(279.4)	R	69.8	87.9	98.9	18.1	(11.0)	MACROCARPAS	1.6	1.5	1.6	2,585.1
PMT1470	4561.3	123.6	L	74.1	78.9	99.1	4.8	(20.2)	POPLAR SHELTER BELT	1.3	1.1	1.2	2,599.3
PMU1469	4568.3	131.6	L	74.2	85.7	99.3	11.5	(13.6)	2 POWER POLES	1.5	1.4	1.5	2,606.3
PMT1432	4581.3	310.6	L	73.7	81.9	99.5	8.2	(17.6)	GUM & WILLOW	1.4	1.2	1.3	2,619.3
PMT1454	4622.2	20.6	L	74.7	80.5	100.4	5.8	(19.9)	POPLAR SHELTER BELT	1.3	1.2	1.3	2,660.2
PMF1541	4637.2	(7.4)	R	74.9	82.0	100.7	7.1	(18.7)	LEAD-IN LIGHT	1.3	1.2	1.3	2,675.2
PMT1421	4638.1	(273.4)	R	70.1	88.5	100.7	18.4	(12.2)	MACROCARPAS	1.6	1.4	1.5	2,676.1

APPROACH/TAKEOFF SURFACE OBSTRUCTIONS - RWY07										Grade % to Obstacle from			Distance
Obstacle ID	Distance from SOT (m)	Offset		Elev AMSL			Obstacle			End CLWY	1686m SOT (1:62.5)	1882m SOT (1:50)	Distance From Fan Origin (m)
		from CL (m)	L or R	Gnd (m)	Obst (m)	Surface (m)	Height (m)	Penetrat'n (m)	Description				
PMT1433	4641.4	354.6	L	73.7	82.0	100.7	8.3	(18.7)	GUMS	1.3	1.2	1.3	2,679.4
PMT1434	4643.4	382.6	L	74.3	82.4	100.8	8.1	(18.4)	MACROCARPA SHELTER BELT	1.4	1.2	1.3	2,681.4
PMT1463	4652.3	170.6	L	74.7	84.4	101.0	9.7	(16.6)	POPLAR SHELTER BELT	1.4	1.3	1.4	2,690.3
PMT1458	4671.2	(48.5)	R	74.9	85.1	101.3	10.2	(16.2)	PINE SHELTER BELT	1.4	1.3	1.4	2,709.2
PMT1457	4682.2	(69.5)	R	74.7	90.3	101.6	15.6	(11.3)	GUMS	1.6	1.5	1.6	2,720.2
PMT1435	4682.4	406.5	L	75.2	89.7	101.6	14.5	(11.9)	MACROCARPA SHELTER BELT	1.6	1.5	1.6	2,720.4
PMT1441	4689.3	300.5	L	74.2	84.1	101.7	9.9	(17.6)	GUMS	1.4	1.3	1.4	2,727.3
PMT1455	4690.1	(93.5)	R	74.7	89.4	101.7	14.7	(12.3)	MACROCARPAS	1.6	1.4	1.5	2,728.1
PMT1459	4697.2	59.5	L	74.8	88.6	101.9	13.8	(13.3)	MACROCARPAS	1.6	1.4	1.5	2,735.2
PMT1456	4701.1	(109.5)	R	74.3	89.0	101.9	14.7	(12.9)	MACROCARPAS	1.6	1.4	1.5	2,739.1
PMT1460	4706.2	72.5	L	74.7	84.9	102.0	10.2	(17.1)	POPLAR SHELTER BELT	1.4	1.3	1.4	2,744.2
PMT1461	4720.2	69.5	L	74.6	86.5	102.3	11.9	(15.8)	MACROCARPAS	1.5	1.3	1.4	2,758.2
PMT1538	4740.1	(172.5)	R	72.1	88.8	102.7	16.7	(13.9)	MACROCARPAS & GUMS	1.5	1.4	1.5	2,778.1
PMU1468	4741.3	232.5	L	75.2	85.4	102.7	10.2	(17.3)	POWER POLE	1.4	1.3	1.4	2,779.3
PMU1467	4749.3	258.5	L	75.4	85.4	102.9	10.0	(17.5)	POWER POLE	1.4	1.3	1.4	2,787.3
PMT1537	4758.0	(382.5)	R	68.1	80.1	103.1	12.0	(23.0)	MACROCARPAS	1.2	1.1	1.2	2,796.0
PMT1450	4764.3	229.5	L	75.2	86.4	103.2	11.2	(16.8)	MACROCARPA	1.4	1.3	1.4	2,802.3
PMT1438	4780.4	419.5	L	75.9	87.6	103.5	11.7	(15.9)	MACROCARPA SHELTER BELT	1.5	1.3	1.4	2,818.4
PMT1439	4790.4	402.5	L	76.2	94.0	103.7	17.8	(9.7)	MACROCARPA SHELTER BELT	1.7	1.5	1.6	2,828.4
PMT1440	4800.4	385.5	L	76.2	93.1	103.9	16.9	(10.8)	MACROCARPA SHELTER BELT	1.7	1.5	1.6	2,838.4
PMT1519	4801.1	(144.5)	R	72.0	93.0	103.9	21.0	(10.9)	PINE SHELTER BELT	1.7	1.5	1.6	2,839.1
PMT1462	4805.2	41.5	L	73.1	92.3	104.0	19.2	(11.7)	PINE SHELTER BELT	1.6	1.5	1.6	2,843.2
PMT1518	4844.1	(118.5)	R	71.9	85.7	104.8	13.8	(19.1)	PINE SHELTER BELT	1.4	1.3	1.3	2,882.1
PMT1539	4866.0	(307.5)	R	68.5	87.5	105.2	19.0	(17.7)	NORFOLK PINE	1.4	1.3	1.4	2,904.0
PMT1444	4872.4	430.4	L	76.8	89.6	105.4	12.8	(15.8)	MACROCARPAS	1.5	1.4	1.5	2,910.4
PMT1503	4883.2	58.4	L	73.7	91.2	105.6	17.5	(14.4)	MACROCARPAS	1.5	1.4	1.5	2,921.2
PMT1443	4887.4	401.4	L	76.9	88.1	105.7	11.2	(17.6)	MACROCARPAS	1.4	1.3	1.4	2,925.4
PMT1517	4893.1	(88.6)	R	71.6	94.3	105.8	22.7	(11.5)	PINE SHELTER BELT	1.6	1.5	1.6	2,931.1
PMT1504	4893.2	(2.6)	R	74.2	86.0	105.8	11.8	(19.8)	GUMS	1.4	1.2	1.3	2,931.2
PMT1473	4900.2	95.4	L	73.9	91.4	105.9	17.5	(14.5)	PINE PLANTATION	1.5	1.4	1.5	2,938.2
PMT1506	4902.2	27.4	L	74.5	96.3	106.0	21.8	(9.7)	MACROCARPAS	1.7	1.6	1.7	2,940.2
PMU1464	4911.4	352.4	L	77.1	87.2	106.1	10.1	(18.9)	POWER POLE	1.4	1.3	1.4	2,949.4
PMT1442	4928.4	387.4	L	77.3	90.2	106.5	12.9	(16.3)	MAPLE	1.5	1.4	1.4	2,966.4
PMT1540	4933.1	(257.6)	R	67.7	84.6	106.6	16.9	(22.0)	MACROCARPA SHELTER BELT	1.3	1.2	1.3	2,971.1
PMT1505	4933.2	(27.6)	R	72.9	93.9	106.6	21.0	(12.7)	MACROCARPAS	1.6	1.5	1.6	2,971.2
PMU1465	4966.4	363.4	L	77.4	87.6	107.2	10.2	(19.6)	POWER POLE	1.4	1.3	1.3	3,004.4
PMT1507	4975.3	139.4	L	75.2	97.5	107.4	22.3	(9.9)	PINE PLANTATION	1.7	1.6	1.7	3,013.3
PMT1474	5074.3	198.4	L	75.5	94.7	109.4	19.2	(14.7)	PINE PLANTATION	1.6	1.4	1.5	3,112.3
PMT1476	5147.2	86.3	L	73.2	90.5	110.9	17.3	(20.4)	POPLARS	1.4	1.3	1.4	3,185.2
PMT1475	5151.2	66.3	L	72.8	94.7	110.9	21.9	(16.2)	PINE PLANTATION	1.5	1.4	1.5	3,189.2
PMT1501	5157.4	467.3	L	77.7	90.6	111.1	12.9	(20.5)	POPLARS	1.4	1.3	1.4	3,195.4
PMT1514	5172.1	(115.7)	R	68.1	90.8	111.4	22.7	(20.6)	MACROCARPA SHELTER BELT	1.4	1.3	1.4	3,210.1

APPROACH/TAKEOFF SURFACE OBSTRUCTIONS - RWY07										Grade % to Obstacle from			Distance
Obstacle ID	Distance from SOT (m)	Offset		Elev AMSL			Obstacle			End CLWY	1686m SOT (1:62.5)	1882m SOT (1:50)	Distance From Fan Origin (m)
		from CL (m)	L or R	Gnd (m)	Obst (m)	Surface (m)	Height (m)	Penetrat'n (m)	Description				
PMT1478	5177.2	72.3	L	72.7	90.2	111.5	17.5	(21.3)	MACROCARPAS	1.4	1.3	1.3	3,215.2
PMT1477	5180.2	80.3	L	72.6	89.7	111.5	17.1	(21.8)	POPLARS	1.4	1.2	1.3	3,218.2
PMT1499	5187.3	265.3	L	76.3	85.9	111.7	9.6	(25.8)	POPLARS	1.2	1.1	1.2	3,225.3
PMT1515	5189.1	(145.7)	R	68.1	94.7	111.7	26.6	(17.0)	MACROCARPA SHELTER BELT	1.5	1.4	1.5	3,227.1
PMT1500	5209.4	384.3	L	76.5	89.0	112.1	12.5	(23.1)	POPLARS	1.3	1.2	1.3	3,247.4
PMT1498	5229.3	292.3	L	76.4	87.1	112.5	10.7	(25.4)	POPLARS	1.3	1.2	1.2	3,267.3
PMT1516	5244.1	(243.7)	R	68.8	90.8	112.8	22.0	(22.0)	MACROCARPA SHELTER BELT	1.4	1.3	1.3	3,282.1
PMT1479	5276.3	130.3	L	73.9	93.8	113.4	19.9	(19.6)	PINES	1.4	1.3	1.4	3,314.3
PMT1480	5290.2	105.2	L	73.1	93.0	113.7	19.9	(20.7)	PINES & MACROCARPAS	1.4	1.3	1.4	3,328.2
PMT1496	5318.4	364.2	L	73.7	88.7	114.3	15.0	(25.6)	POPLARS	1.3	1.2	1.2	3,356.4
PMT1488	5330.4	357.2	L	72.9	94.9	114.5	22.0	(19.6)	PINES & WILLOWS	1.4	1.3	1.4	3,368.4
PMT1481	5366.3	182.2	L	75.1	92.1	115.2	17.0	(23.1)	2 PINES	1.4	1.2	1.3	3,404.3
PMT1486	5421.3	308.2	L	73.3	90.6	116.3	17.3	(25.7)	POPLARS	1.3	1.2	1.3	3,459.3
PMT1487	5429.3	326.2	L	73.5	92.9	116.5	19.4	(23.6)	POPLARS	1.3	1.3	1.3	3,467.3
PMT1493	5431.4	475.2	L	75.3	88.6	116.5	13.3	(27.9)	POPLARS	1.2	1.1	1.2	3,469.4
PMT1485	5436.2	46.2	L	72.9	88.5	116.6	15.6	(28.1)	MACROCARPAS	1.2	1.1	1.2	3,474.2
PMT1492	5442.4	446.2	L	76.4	89.4	116.8	13.0	(27.4)	POPLARS	1.2	1.2	1.2	3,480.4
PMT1491	5453.4	442.2	L	76.5	91.9	117.0	15.4	(25.1)	3 MACROCARPAS	1.3	1.2	1.3	3,491.4
PMT1482	5454.3	233.2	L	75.6	98.1	117.0	22.5	(18.9)	PINES	1.5	1.4	1.5	3,492.3
PMT1483	5470.3	197.2	L	75.1	94.0	117.3	18.9	(23.3)	PINES	1.4	1.3	1.3	3,508.3
PMT1513	5506.1	(87.9)	R	63.8	93.5	118.0	29.7	(24.5)	PINES	1.3	1.2	1.3	3,544.1
PMT1484	5508.2	88.1	L	72.9	94.9	118.1	22.0	(23.2)	MACROCARPAS	1.4	1.3	1.3	3,546.2
PMT1512	5544.2	(64.9)	R	70.3	90.2	118.8	19.9	(28.6)	MACROCARPAS & PINES	1.2	1.1	1.2	3,582.2
PMT1509	5673.2	(0.9)	R	69.8	100.5	121.4	30.7	(20.9)	PINES & MACROCARPAS	1.5	1.4	1.4	3,711.2
PMT1508	5688.2	54.1	L	68.1	93.5	121.7	25.4	(28.2)	PINES	1.3	1.2	1.2	3,726.2
PMT1596	6888.5	695.5	L	81.5	105.7	145.7	24.2	(40.0)	PINES	1.2	1.1	1.2	4,926.5