

Appendix 4N

Emission of Helicopter

Appendix 4N

CE 38/2008(HY)
Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron
Investigation, Design and Construction
Emission of Helicopter

Event	Source ID	X-Coordinate	Y-Coordinate	Elevation	Average Time, s	NOx Twin Engine, lb/min	NOx Twin Engine, g	NOx g/s	Sigma Y	Sigma Z
Approaching	1001	839950.5	817924.0	80	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1002	839955.1	817929.4	78	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1003	839959.7	817934.8	77	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1004	839964.3	817940.2	76	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1005	839968.9	817945.6	75	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1006	839973.5	817951.0	74	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1007	839978.1	817956.4	73	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1008	839982.7	817961.8	72	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1009	839987.3	817967.2	71	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1010	839991.9	817972.6	70	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1011	839996.5	817978.0	69	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1012	840001.1	817983.4	67	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1013	840005.7	817988.8	66	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1014	840010.3	817994.2	65	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1015	840014.9	817999.6	64	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1016	840019.5	818005.0	63	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1017	840024.1	818010.4	62	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1018	840028.7	818015.8	61	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1019	840033.3	818021.2	60	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1020	840037.9	818026.6	59	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1021	840042.5	818032.0	57	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1022	840047.1	818037.4	56	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1023	840051.7	818042.8	55	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1024	840056.3	818048.2	54	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1025	840060.9	818053.6	53	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1026	840065.5	818059.0	52	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1027	840070.1	818064.4	51	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1028	840074.7	818069.8	50	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1029	840079.3	818075.2	49	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1030	840083.9	818080.6	47	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1031	840088.5	818086.0	46	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1032	840093.1	818091.4	45	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1033	840097.7	818096.8	44	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1034	840102.3	818102.2	43	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1035	840106.9	818107.6	42	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1036	840111.5	818113.0	41	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1037	840116.1	818118.4	40	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1038	840120.7	818123.8	39	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1039	840125.3	818129.2	37	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1040	840129.9	818134.6	36	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1041	840134.5	818140.0	35	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1042	840139.1	818145.4	34	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1043	840143.7	818150.8	33	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1044	840148.3	818156.2	32	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1045	840152.9	818161.6	31	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1046	840157.5	818167.0	30	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1047	840162.1	818172.4	29	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1048	840166.7	818177.8	27	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1049	840171.3	818183.2	26	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1050	840175.9	818188.6	25	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1051	840180.5	818194.0	24	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1052	840185.1	818199.4	23	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1053	840189.7	818204.8	22	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1054	840194.3	818210.2	21	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1055	840198.9	818215.6	20	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1056	840203.5	818221.0	19	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1057	840208.1	818226.4	18	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1058	840212.7	818231.8	16	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1059	840217.3	818237.2	15	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1060	840221.9	818242.6	14	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1061	840226.5	818248.0	13	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1062	840231.1	818253.4	12	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1063	840235.7	818258.8	11	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1064	840240.3	818264.2	10	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1065	840244.9	818269.6	9	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1066	840249.5	818275.0	8	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1067	840254.1	818280.4	6	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1068	840258.7	818285.8	5	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1069	840263.3	818291.2	4	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1070	840267.9	818296.6	3	29.33	0.098	21.73	0.00034006	3.26	1.03
Approaching	1071	840272.5	818302.0	2	29.33	0.098	21.73	0.00034006	3.26	1.03
Hovering	1072	840275.4	818301.8	0	30	0.098	22.23	0.024696	3.26	1.03
Idling	1073	840275.4	818301.8	0	673.5	0.006	30.55	0.033944	3.26	1.03
Hovering	1074	840275.4	818301.8	0	55.83	0.143	60.36	0.067062	3.26	1.03
Takeoff (1st 30m)	1101	840277.7	818304.5	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (1st 30m)	1102	840282.3	818309.9	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (1st 30m)	1103	840286.9	818315.3	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (1st 30m)	1104	840291.5	818320.7	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1105	840272.5	818266.7	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1106	840272.5	818266.7	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1107	840267.8	818261.5	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1108	840263.1	818256.3	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1109	840258.4	818251.1	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1110	840253.7	818245.9	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1111	840249.0	818240.7	2	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1112	840244.3	818235.5	3	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1113	840239.6	818230.3	3	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1114	840234.9	818225.1	3	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1115	840230.2	818219.9	3	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1116	840225.5	818214.7	3	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1117	840220.8	818209.4	3	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)										

Takeoff (after 30m)	1130	840159.7	818141.9	6	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1131	840155.0	818136.7	7	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1132	840150.3	818131.5	9	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1133	840145.6	818126.3	10	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1134	840140.9	818121.1	12	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1135	840136.2	818115.9	14	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1136	840131.5	818110.7	15	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1137	840126.8	818105.5	17	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1138	840122.1	818100.3	19	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1139	840117.4	818095.1	20	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1140	840112.7	818089.9	22	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1141	840108.0	818084.7	23	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1142	840103.3	818079.5	25	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1143	840098.6	818074.3	27	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1144	840093.9	818069.1	28	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1145	840089.2	818063.9	30	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1146	840084.5	818058.7	31	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1147	840079.8	818053.5	33	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1148	840075.1	818048.3	35	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1149	840070.4	818043.1	36	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1150	840065.7	818037.9	38	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1151	840061.0	818032.7	40	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1152	840056.3	818027.5	41	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1153	840051.6	818022.3	43	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1154	840046.9	818017.1	44	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1155	840042.2	818011.9	45	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1156	840037.5	818006.7	48	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1157	840032.8	818001.5	49	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1158	840028.1	817996.3	51	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1159	840023.4	817991.1	52	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1160	840018.7	817985.9	54	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1161	840014.0	817980.7	56	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1162	840009.3	817975.5	57	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1163	840004.6	817970.3	59	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1164	839999.9	817965.1	61	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1165	839995.2	817959.9	62	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1166	839990.5	817954.7	64	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1167	839985.8	817949.5	65	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1168	839981.1	817944.3	67	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1169	839976.4	817939.1	69	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1170	839971.7	817933.9	70	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1171	839967	817928.7	72	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1172	839962.3	817923.5	73	12.5	0.143	13.51	0.00020568	3.26	1.03
Takeoff (after 30m)	1173	839957.6	817918.3	75	12.5	0.143	13.51	0.00020568	3.26	1.03

Event	Source ID	X-Coordinate	Y-Coordinate	Elevation	Average Time, s	RSP Twin Engine, lb/min	RSP Twin Engine, g	RSP g/s	Sigma Y	Sigma Z
Approaching	1001	839950.5	817924.0	80	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1002	839955.1	817929.4	78	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1003	839959.7	817934.8	77	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1004	839964.3	817940.2	76	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1005	839968.9	817945.6	75	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1006	839973.5	817951.0	74	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1007	839978.1	817956.4	73	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1008	839982.7	817961.8	72	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1009	839987.3	817967.2	71	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1010	839991.9	817972.6	70	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1011	839996.5	817978.0	69	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1012	840001.1	817983.4	67	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1013	840005.7	817988.8	66	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1014	840010.3	817994.2	65	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1015	840014.9	817999.6	64	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1016	840019.5	818005.0	63	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1017	840024.1	818010.4	62	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1018	840028.7	818015.8	61	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1019	840033.3	818021.2	60	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1020	840037.9	818026.6	59	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1021	840042.5	818032.0	57	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1022	840047.1	818037.4	56	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1023	840051.7	818042.8	55	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1024	840056.3	818048.2	54	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1025	840060.9	818053.6	53	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1026	840065.5	818059.0	52	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1027	840070.1	818064.4	51	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1028	840074.7	818069.8	50	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1029	840079.3	818075.2	49	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1030	840083.9	818080.6	47	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1031	840088.5	818086.0	46	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1032	840093.1	818091.4	45	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1033	840097.7	818096.8	44	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1034	840102.3	818102.2	43	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1035	840106.9	818107.6	42	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1036	840111.5	818113.0	41	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1037	840116.1	818118.4	40	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1038	840120.7	818123.8	39	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1039	840125.3	818129.2	37	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1040	840129.9	818134.6	36	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1041	840134.5	818140.0	35	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1042	840139.1	818145.4	34	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1043	840143.7	818150.8	33	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1044	840148.3	818156.2	32	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1045	840152.9	818161.6	31	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1046	840157.5	818167.0	30	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1047	840162.1	818172.4	29	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1048	840166.7	818177.8	27	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1049	840171.3	818183.2	26	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1050	840175.9	818188.6	25	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1051	840180.5	818194.0	24	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1052	840185.1	818199.4	23	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1053	840189.7	818204.8	22	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1054	840194.3	818210.2	21	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1055	840198.9	818215.6	20	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1056	840203.5	818221.0	19	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1057	840208.1	818226.4	18	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1058	840212.7	818231.8	16	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1059	840217.3	818237.2	15	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1060	840221.9	818242.6	14	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1061	840226.5	818248.0	13	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1062	840231.1	818253.4	12	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1063	840235.7	818258.8	11	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1064	840240.3	818264.2	10	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1065	840244.9	818269.6	9	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1066	840249.5	818275.0	8	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1067	840254.1	818280.4	6	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1068	840258.7	818285.8	5	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1069	840263.3	818291.2	4	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1070	840267.9	818296.6	3	29.33	0.027	5.99	0.00009369	3.26	1.03
Approaching	1071	840272.5	818302.0	2	29.33	0.027	5.99	0.00009369	3.26	1.03
Hovering	1072	840275.4	818301.8	0	30	0.027	6.12	0.006804	3.26	1.03
Idling	1073	840275.4	818301.8	0	673.5	0.003	15.27	0.016972	3.26	1.03
Hovering	1074	840275.4	818301.8	0	55.83	0.027	11.40	0.012662	3.26	1.03
Takeoff (1st 30m)	1101	840277.7	818304.5	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (1st 30m)	1102	840282.3	818309.9	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (1st 30m)	1103	840286.9	818315.3	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (1st 30m)	1104	840291.5	818320.7	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1105	840272.5	818266.7	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1106	840272.5	818266.7	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1107	840267.9	818261.5	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1108	840263.3	818256.3	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1109	840258.7	818251.1	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1110	840253.7	818245.9	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1111	840249.0	818240.7	2	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1112	840244.3	818235.5	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1113	840239.6	818230.3	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1114	840234.9	818225.1	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1115	840230.2	818219.9	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1116	840225.5	818214.7	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1117	840220.8	818209.4	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1118	840216.1	818204.3	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1119	840211.4	818199.1	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1120	840206.7	818193.9	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1121	840202.0	818188.7	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1122	840197.3	818183.5	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1123	840192.6	818178.3	3	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1124	840187.9	818173.1	4	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1125	840183.2	818167.9	4	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1126	840178.5	818162.7	4	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1127	840173.8	818157.5	4	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1128	840169.1	818152.3	4	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1129	840164.4	818147.1	4	12.5	0.027	2.55	0.00003883	3.26	1.03

Takeoff (after 30m)	1130	840159.7	818141.9	6	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1131	840155.0	818136.7	7	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1132	840150.3	818131.5	9	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1133	840145.6	818126.3	10	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1134	840140.9	818121.1	12	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1135	840136.2	818115.9	14	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1136	840131.5	818110.7	15	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1137	840126.8	818105.5	17	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1138	840122.1	818100.3	19	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1139	840117.4	818095.1	20	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1140	840112.7	818089.9	22	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1141	840108.0	818084.7	23	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1142	840103.3	818079.5	25	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1143	840098.6	818074.3	27	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1144	840093.9	818069.1	28	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1145	840089.2	818063.9	30	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1146	840084.5	818058.7	31	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1147	840079.8	818053.5	33	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1148	840075.1	818048.3	35	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1149	840070.4	818043.1	36	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1150	840065.7	818037.9	38	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1151	840061.0	818032.7	40	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1152	840056.3	818027.5	41	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1153	840051.6	818022.3	43	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1154	840046.9	818017.1	44	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1155	840042.2	818011.9	45	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1156	840037.5	818006.7	48	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1157	840032.8	818001.5	49	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1158	840028.1	817996.3	51	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1159	840023.4	817991.1	52	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1160	840018.7	817985.9	54	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1161	840014.0	817980.7	56	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1162	840009.3	817975.5	57	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1163	840004.6	817970.3	59	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1164	839999.9	817965.1	61	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1165	839995.2	817959.9	62	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1166	839990.5	817954.7	64	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1167	839985.8	817949.5	65	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1168	839981.1	817944.3	67	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1169	839976.4	817939.1	69	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1170	839971.7	817933.9	70	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1171	839967	817928.7	72	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1172	839962.3	817923.5	73	12.5	0.027	2.55	0.00003883	3.26	1.03
Takeoff (after 30m)	1173	839957.6	817918.3	75	12.5	0.027	2.55	0.00003883	3.26	1.03