

Appendix 1

Single track analyses

Appendix : Single Track Analysis
 Population Exposed to 70 dBA or more

Mode: 1

Departures on Runway: 16R

Arrivals on Runway: 34L

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
16R	North	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	East	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	South	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	West	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	North-west	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
34L	Arrivals	Yes	700	Yes	700	Yes	0	Yes	0	Yes	0

Mode: 2

Departures on Runway: 16R

Arrivals on Runway: 34R 16R (HEAVY)

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
16R	North	Yes	25,900	Yes	40,200	Yes	18,800	Yes	0	Yes	0
	East	Yes	25,900	Yes	40,200	Yes	18,800	Yes	0	Yes	0
	South	Yes	26,100	Yes	40,400	Yes	18,800	Yes	0	Yes	0
	West	Yes	26,100	Yes	40,400	Yes	18,800	Yes	0	Yes	0
	North-west	Yes	26,100	Yes	40,400	Yes	18,800	Yes	0	Yes	0
34R	Arrivals	No	N/A	No	N/A	Yes	700	Yes	700	Yes	0
16R	Arrivals	Yes	96,400	Yes	134,400	Yes	50,100	Yes	33,800	Yes	8900

Mode: 3

Departures on Runway:

16L

34L(HEAVY)

Arrivals on Runway:

34L

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
16L	North	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	East	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	South	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	West	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	North-west	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
34L	North	Yes	177,900	Yes	238,000	No	N/A	No	N/A	No	N/A
	East	Yes	182,000	Yes	251,600	No	N/A	No	N/A	No	N/A
	South	Yes	178,900	Yes	244,200	No	N/A	No	N/A	No	N/A
	West	Yes	205,100	Yes	270,200	No	N/A	No	N/A	No	N/A
	North-west	Yes	188,800	Yes	259,200	No	N/A	No	N/A	No	N/A
34L	Arrivals	Yes	700	Yes	700	Yes	0	Yes	0	Yes	0

Mode: 4

Departures on Runway: 16L

16R (Heavy)

Arrivals on Runway: 34L

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
16L	North	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	East	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	South	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	West	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	North-west	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
16R	North	Yes	1,000	Yes	4,000	No	N/A	No	N/A	No	N/A
	East	Yes	1,000	Yes	4,000	No	N/A	No	N/A	No	N/A
	South	Yes	1,000	Yes	4,000	No	N/A	No	N/A	No	N/A
	West	Yes	1,000	Yes	4,000	No	N/A	No	N/A	No	N/A
	North-west	Yes	1,000	Yes	4,000	No	N/A	No	N/A	No	N/A
34L	Arrivals	Yes	700	Yes	700	Yes	0	Yes	0	Yes	0

Mode: 5

Departures on Runway: 16L&16R

Arrivals on Runway: 25 (16R Heavy)

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
16L	North	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	East	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	South	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	West	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	North-west	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
16R	North	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	East	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	South	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	West	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	North-west	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
25	Arrivals	Yes	39,300	Yes	44,200	Yes	27,300	Yes	20,400	Yes	7,400
16R	Arrivals	Yes	96,400	Yes	134,400	Yes	50,100	Yes	33,800	Yes	8,900

Mode: 6

Departures on Runway:

07

34L (Heavy)

Arrivals on Runway:

34L & 34R

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
07	North	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
	North (Early)	Yes	119,200	Yes	158,000	Yes	94,100	Yes	35,500	No	N/A
	East	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
	South	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
	West	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
	North-west	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
34L	North	Yes	177,900	Yes	238,000	No	N/A	No	N/A	No	N/A
	East	Yes	182,000	Yes	251,600	No	N/A	No	N/A	No	N/A
	South	Yes	178,900	Yes	244,200	No	N/A	No	N/A	No	N/A
	West	Yes	205,100	Yes	270,200	No	N/A	No	N/A	No	N/A
	North-west	Yes	188,800	Yes	259,200	No	N/A	No	N/A	No	N/A
34L	Arrivals	Yes	700	Yes	700	Yes	0	Yes	0	Yes	0
34R	Arrivals	No	N/A	No	N/A	Yes	700	Yes	700	Yes	0

Mode: 7

Departures on Runway:

25

34L (Heavy)

Arrivals on Runway:

34R

34L (Heavy)

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
25	North	Yes	167,900	Yes	234,600	Yes	125,700	Yes	42,400	Yes	2,800
	East	Yes	175,000	Yes	273,500	Yes	125,200	Yes	42,400	Yes	Not Assessed
	South	Yes	141,100	Yes	180,200	Yes	112,000	Yes	45,400	Yes	2,800
	West	Yes	147,300	Yes	241,300	Yes	116,000	Yes	44,900	Yes	2,800
	North-west	Yes	184,100	Yes	282,500	Yes	131,800	Yes	44,200	Yes	3,300
	North-west (Early)	Yes	157,900	Yes	234,400	Yes	113,100	Yes	37,400	No	N/A
34L	North	Yes	177,900	Yes	238,000	No	N/A	No	N/A	No	N/A
	East	Yes	182,000	Yes	251,600	No	N/A	No	N/A	No	N/A
	South	Yes	178,900	Yes	244,200	No	N/A	No	N/A	No	N/A
	West	Yes	205,100	Yes	270,200	No	N/A	No	N/A	No	N/A
	North-west	Yes	188,800	Yes	259,200	No	N/A	No	N/A	No	N/A
34R	Arrivals	No	N/A	No	N/A	Yes	700	Yes	700	Yes	0
34L	Arrivals	Yes	700	Yes	700	Yes	0	Yes	0	Yes	0

Mode: 8

Departures on Runway:

25 & 34R

34L (Heavy)

Arrivals on Runway:

34L & 34R

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
25	North	Yes	167,900	Yes	234,600	Yes	125,700	Yes	42,400	Yes	2,800
	East	Yes	175,000	Yes	273,500	Yes	125,200	Yes	42,400	Yes	Not Assessed
	South	Yes	141,100	Yes	180,200	Yes	112,000	Yes	45,400	Yes	2,800
	West	Yes	147,300	Yes	241,300	Yes	116,000	Yes	44,900	Yes	2,800
	North-west	Yes	184,100	Yes	282,500	Yes	131,800	Yes	44,200	Yes	3,300
	North-west (Early)	Yes	157,900	Yes	234,400	Yes	113,100	Yes	37,400	No	N/A
34R	North	No	N/A	No	N/A	Yes	64,600	Yes	38,800	Yes	600
	North (Early)	No	N/A	No	N/A	Yes	86,600	Yes	22,300	No	N/A
	East	No	N/A	No	N/A	No	N/A	No	N/A	No	N/A
	South	No	N/A	No	N/A	Yes	64,600	Yes	38,800	No	N/A
	West	No	N/A	No	N/A	No	N/A	No	N/A	No	N/A
	Norht-west	No	N/A	No	N/A	No	N/A	No	N/A	No	N/A
34L	North	Yes	177,900	Yes	238,000	No	N/A	No	N/A	No	N/A
	East	Yes	182,000	Yes	251,600	No	N/A	No	N/A	No	N/A
	South	Yes	178,900	Yes	244,200	No	N/A	No	N/A	No	N/A
	West	Yes	205,100	Yes	270,200	No	N/A	No	N/A	No	N/A
	North-west	Yes	188,800	Yes	259,200	No	N/A	No	N/A	No	N/A
34L	Arrivals	Yes	700	Yes	700	Yes	0	Yes	0	Yes	0
34R	Arrivals	No	N/A	No	N/A	Yes	700	Yes	700	Yes	0

Mode: 9

Departures on Runway:

34R & 34L

Arrivals on Runway:

34R & 34L

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
34R	North	No	N/A	No	N/A	Yes	64,600	Yes	38,800	Yes	600
	North (Early)	No	N/A	No	N/A	Yes	86,600	Yes	22,300	No	N/A
	East	No	N/A	No	N/A	No	N/A	No	N/A	No	N/A
	South	No	N/A	No	N/A	Yes	64,600	Yes	38,800	No	N/A
	West	No	N/A	No	N/A	No	N/A	No	N/A	No	N/A
	North-west	No	N/A	No	N/A	No	N/A	No	N/A	No	N/A
34L	North	Yes	177,900	Yes	238,000	No	N/A	No	N/A	No	N/A
	East	Yes	178,900	Yes	244,200	Yes	110,200	Yes	43,500	Yes	Not Assessed
	South	Yes	205,100	Yes	270,200	No	N/A	No	N/A	Yes	12,100
	West	Yes	188,800	Yes	259,200	Yes	103,500	Yes	38,900	Yes	10,300
	North-west	Yes	178,200	Yes	252,400	Yes	109,400	Yes	40,400	Yes	10,200
34R	Arrivals	No	N/A	No	N/A	Yes	700	Yes	700	Yes	0
34L	Arrivals	Yes	700	Yes	700	Yes	0	Yes	0	Yes	0

Mode: 10

Departures on Runway: 16L & 16R

Arrivals on Runway: 16L & 16R

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
16L	North	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	East	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	South	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	West	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	North-west	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
16R	North	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	East	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	South	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	West	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	North-west	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
16L	Arrivals	No	N/A	No	N/A	Yes	46,000	Yes	29,200	Yes	5,100
16R	Arrivals	Yes	96,400	Yes	134,400	Yes	50,100	Yes	33,800	Yes	8,900

Mode: 11

Departures on Runway:

16L & 16R

Arrivals on Runway:

07, 16L & 16R

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
16L	North	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	East	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	South	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	West	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	North-west	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
16R	North	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	East	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	South	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	West	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	North-west	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
07	Arrivals	Yes	62,300	Yes	72,600	Yes	46,300	Yes	32,000	Yes	11,800
16L	Arrivals	No	N/A	No	N/A	Yes	46,000	Yes	29,200	Yes	5,100
16R	Arrivals	Yes	96,400	Yes	134,400	Yes	50,100	Yes	33,800	Yes	8,900

Mode: 12

Departures on Runway: 07

Arrivals on Runway: 07

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
07	North	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
	North (Early)	Yes	119,200	Yes	158,000	Yes	94,100	Yes	35,500	No	N/A
	East	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
	South	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
	West	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
	North-west	Yes	81,700	Yes	105,800	Yes	62,500	Yes	28,500	Yes	4,600
07	Arrivals	Yes	62,300	Yes	72,600	Yes	46,300	Yes	32,000	Yes	11,800

Mode: 13

Departures on Runway: 25

Arrivals on Runway: 25

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
25	North	Yes	167,900	Yes	234,600	Yes	125,700	Yes	42,400	Yes	2,800
	East	Yes	175,000	Yes	273,500	Yes	125,200	Yes	42,400	Yes	Not Assessed
	South	Yes	141,100	Yes	180,200	Yes	112,000	Yes	45,400	Yes	2,800
	West	Yes	147,300	Yes	241,300	Yes	116,000	Yes	44,900	Yes	2,800
	North-west	Yes	184,100	Yes	282,500	Yes	131,800	Yes	44,200	Yes	3,300
	North-west (Early)	Yes	157,900	Yes	234,400	Yes	113,100	Yes	37,400	No	N/A
25	Arrivals	Yes	39,300	Yes	44,200	Yes	27,300	Yes	20,400	Yes	7,400

Mode: 14A

Departures on Runway:

16L & 16R

Arrivals on Runway:

16R & 07

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
16L	North	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	East	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	South	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	West	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
	North-west	Yes	2,500	Yes	5,800	Yes	2,300	Yes	0	Yes	0
16R	North	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	East	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	South	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	West	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
	North-west	Yes	1,000	Yes	4,000	Yes	1,000	Yes	0	Yes	0
16R	Arrivals	Yes	96,400	Yes	134,400	Yes	50,100	Yes	33,800	Yes	8,900
07	Arrivals	Yes	62,300	Yes	72,600	Yes	46,300	Yes	32,000	Yes	11,800

Mode: 15

Departures on Runway:

34R

34L (Heavy)

Arrivals on Runway:

34L

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
34R	North	No	N/A	No	N/A	Yes	64,600	Yes	38,800	Yes	600
	North (Early)	No	N/A	No	N/A	Yes	86,600	Yes	22,300	No	N/A
	East	No	N/A	No	N/A	Yes	64,600	Yes	38,800	Yes	600
	South	No	N/A	No	N/A	Yes	64,600	Yes	38,800	Yes	600
	West	No	N/A	No	N/A	Yes	64,600	Yes	38,800	Yes	600
	North-west	No	N/A	No	N/A	Yes	64,600	Yes	38,800	Yes	600
34L	North	Yes	177,900	Yes	238,000	No	N/A	No	N/A	No	N/A
	East	Yes	182,000	Yes	251,600	No	N/A	No	N/A	No	N/A
	South	Yes	178,900	Yes	244,200	No	N/A	No	N/A	No	N/A
	West	Yes	205,100	Yes	270,200	No	N/A	No	N/A	No	N/A
	North-west	Yes	188,800	Yes	259,200	No	N/A	No	N/A	No	N/A
34L	Arrivals	Yes	700	Yes	700	Yes	0	Yes	0	Yes	0

Mode: 16

Departures on Runway: 34L

Arrivals on Runway: 34R 34L (Heavy)

Rwy	Departure Route	B747/400	No. People >= 70dBA	B747/200	No. People >= 70dBA	B767	No. People >= 70dBA	B737	No. People >= 70dBA	SAAB 340	No. People >= 70dBA
34L	North	Yes	177,900	Yes	238,000	Yes	110,200	Yes	43,500	Yes	8,600
	East	Yes	178,900	Yes	244,200	Yes	110,200	Yes	43,500	Yes	Not Assessed
	South	Yes	205,100	Yes	270,200	Yes	123,000	Yes	38,900	Yes	12,100
	West	Yes	188,800	Yes	259,200	Yes	103,500	Yes	38,900	Yes	10,300
	North-west	Yes	178,200	Yes	252,400	Yes	109,400	Yes	40,400	Yes	10,200
34R	Arrivals	No	N/A	No	N/A	Yes	700	Yes	700	Yes	0
34L	Arrivals	Yes	700	Yes	700	Yes	0	Yes	0	Yes	0