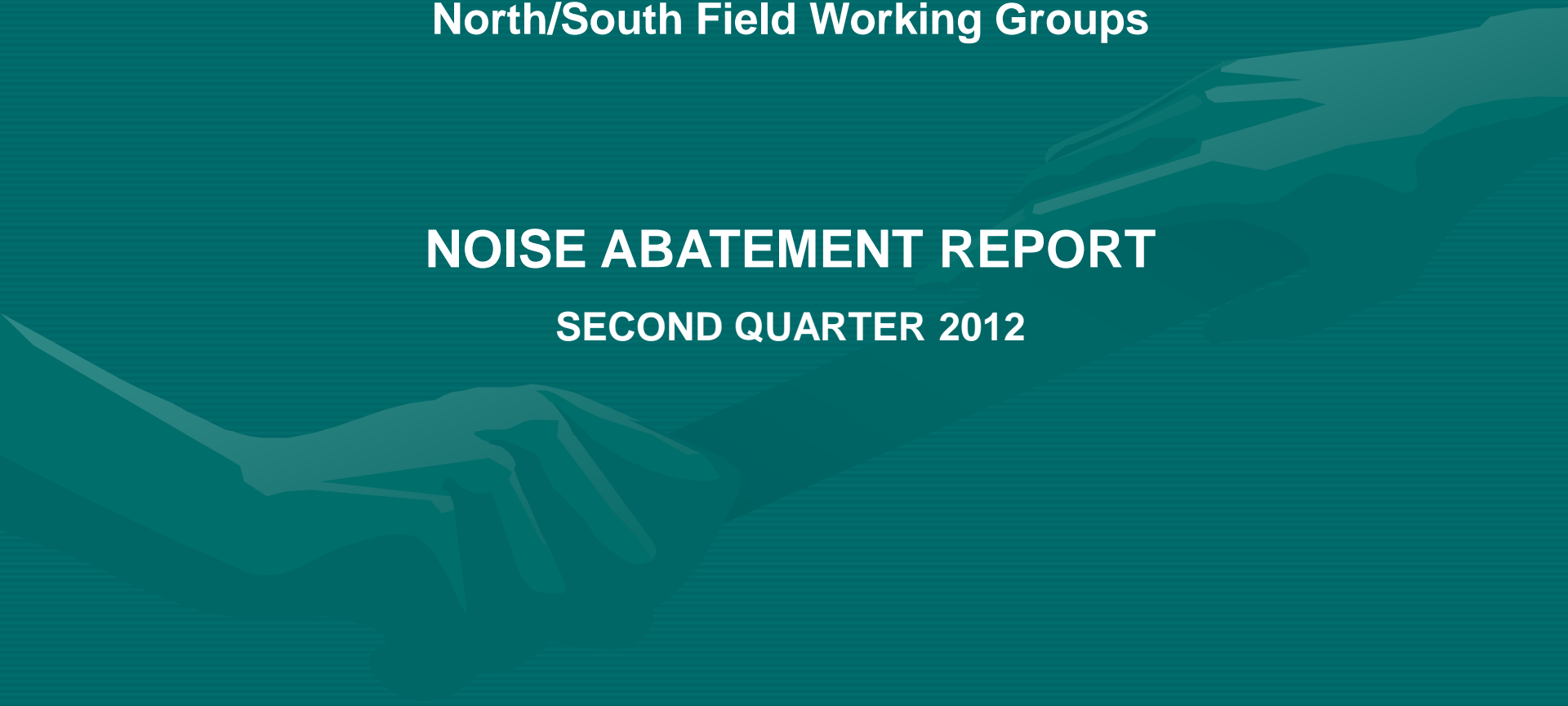


NOISE FORUM SUMMARY

North/South Field Working Groups

NOISE ABATEMENT REPORT

SECOND QUARTER 2012



**Compliance Monitoring Quarterly Summary Comparison
Second Quarter 2012**

	2011Q2		2012Q2	
	Compl.	N/C	Compl.	N/C
Runway 27R/L Jet Departure Compliance	96%	4%	98%	2%
Total Airport-wide Corporate Jet Departures	1,985	85	2,258	51
Runway 09R/L Jet Landing Compliance	69%	31%	74%	26%
Total Southeast Plan Corporate Jet Landings	81	25	23	6
North Field VFR Departure Compliance	98%	2%	98%	2%
Total Runways 27R/L & 33 Departures	1,278	27	1,116	25
North Field Quiet Hours Compliance	96%	4%	87%	13%
Total North Field Quiet Hours Departures	536	24	411	53
Runway 29 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 29 Turbojet Departures	14,781	9	16,012	4
Silent7 Night Departure Compliance	99%	1%	99%	1%
Total Runway 29 Night Turbojet Departures	2,922	32	3,006	44
Runway 11 Night Departure Compliance	92%	8%	96%	4%
Total Runway 11 Night Turbojet Departures	48	4	52	2
Runway 29 East Turn Departure Compliance	98%	2%	97%	3%
Total Runway 29 East Turn Departures	4,112	85	4,218	112
100 Degree Radial Turbojet Landing Compliance	87%	13%	95%	5%
Total 100 Degree Radial Turbojet Landings	2,431	192	2,649	152
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	24	0	19	0

Link to full report: http://flyquiotoak.com/pages/reports/quarterly_noise_compliance.html

Operation Details
Beacon Code: 3271
AC Type: GLF3
Operation Type: Departure
Runway: 27R
Target Details
Date/Time: 4/2/2009 09:58:59

Runway 27L/R Jet Departure NAP

2012Q2
98% Compliance
(2,309 departures)

2011Q2
96% Compliance
(2,070 departures)

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Heading: 325
Elevation: 15

Arrivals
Departures
Overflights



Operation Details
Beacon Code: 1002
AC Type: BE40
Operation Type: Arrival
Runway: 09R
Target Details
Date/Time: 4/7/2009 12:09:00



Runway 09L/R Jet Landing NAP

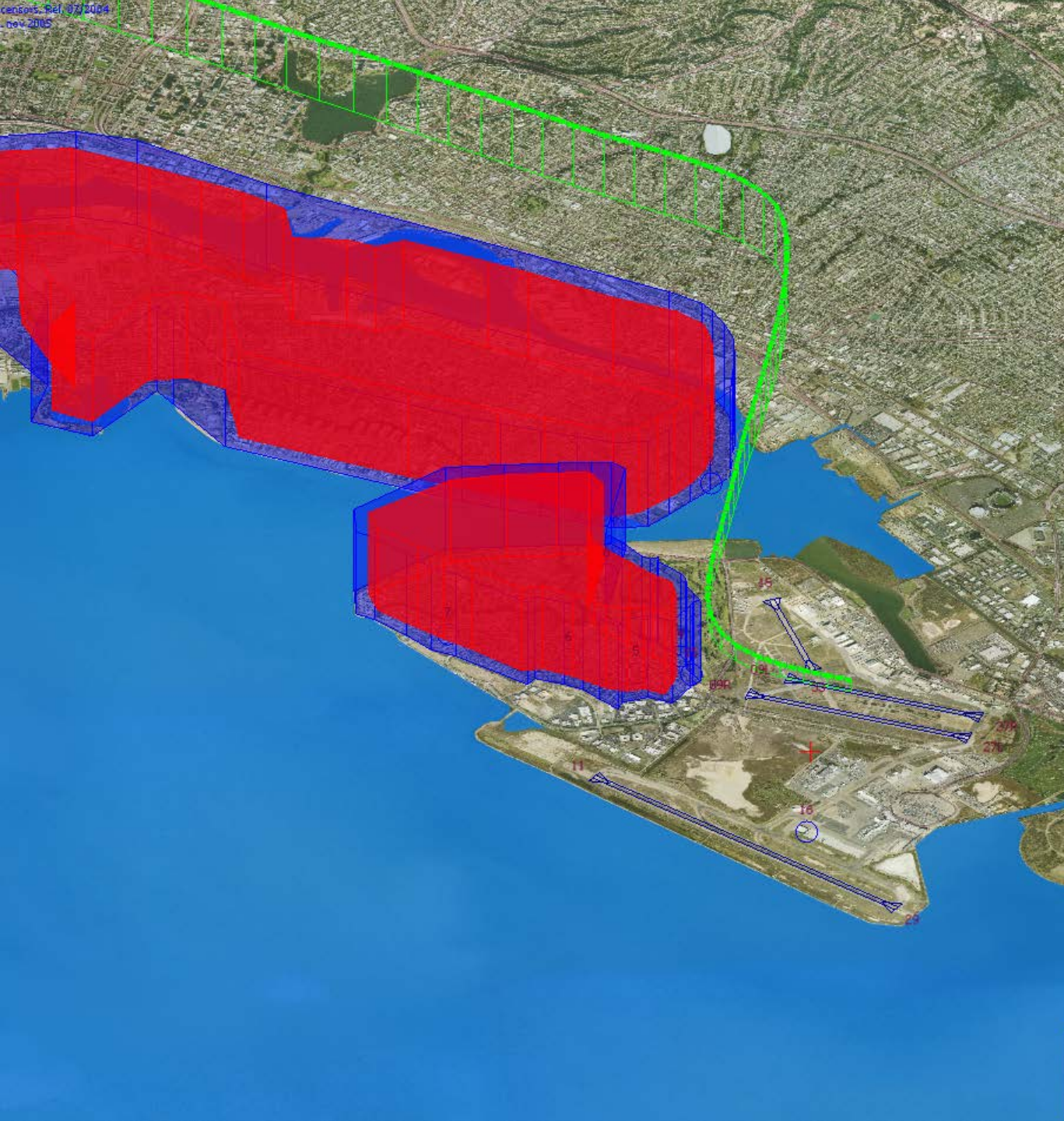
2012Q2
74% Compliance
(23 landings)

2011Q2
69% Compliance
(81 landings)

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© 2007 AirPhoto USA, Rel. nov 2005

Heading: 325
Elevation: 15

Arrivals
Departures
Overflights



VFR Aircraft Departure NAP

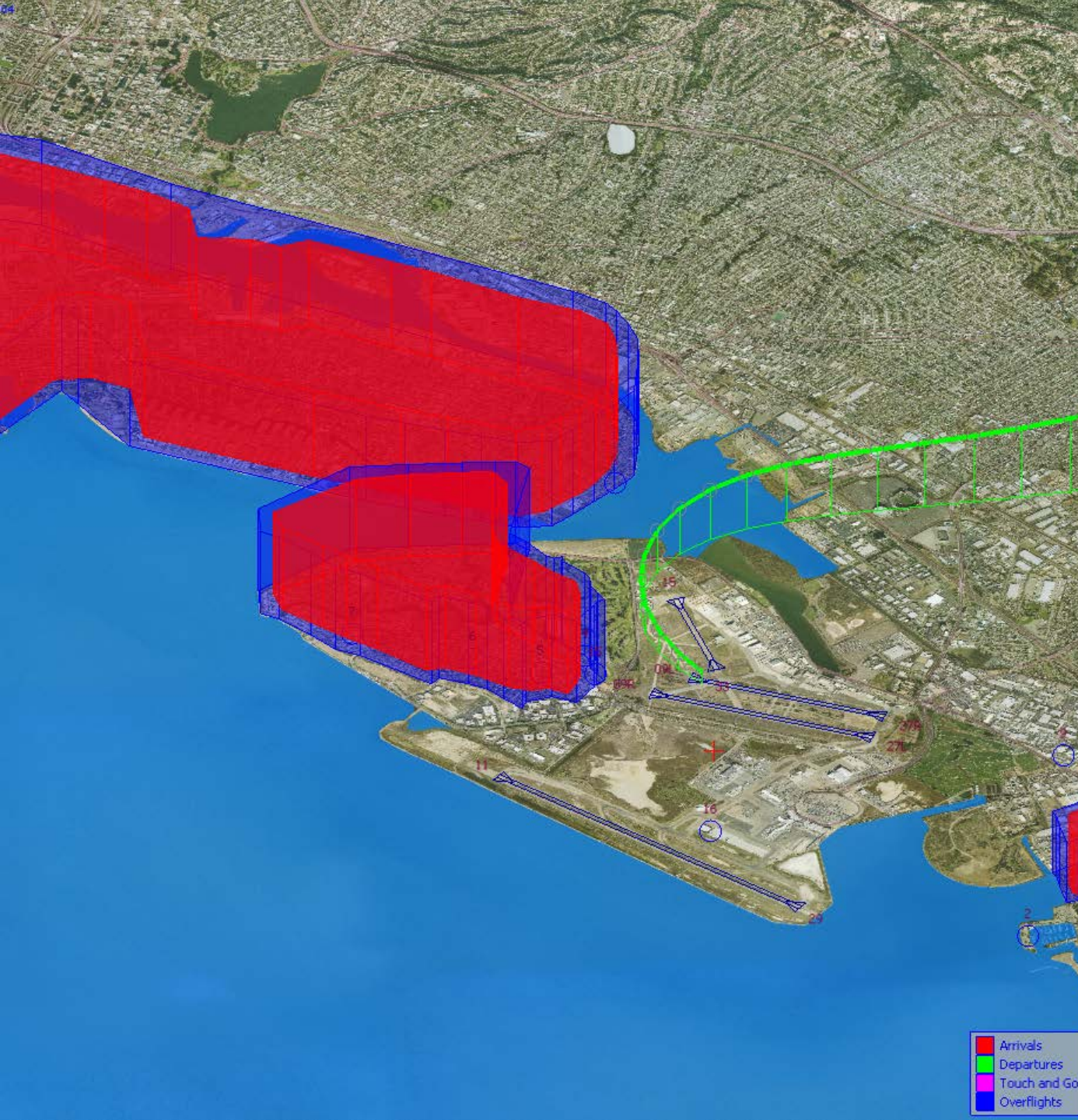
2012Q2
98% Compliance
(1,116 departures)

2011Q2
98% Compliance
(1,278 departures)

North Field Quiet Hours NAP

2012Q2
87% Compliance
(411 departures)

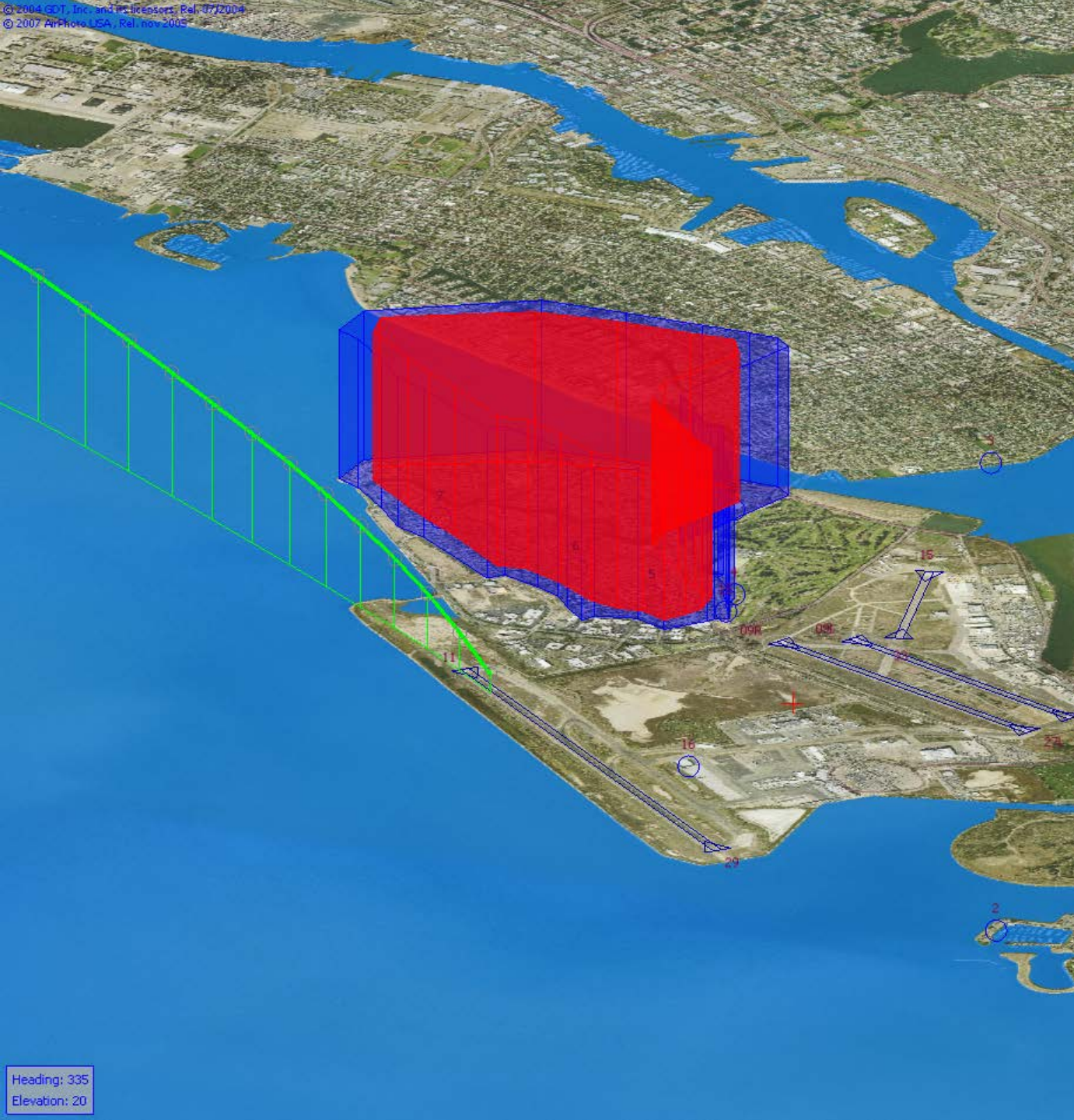
2011Q2
96% Compliance
(536 departures)



RWY 29 Bay Farm Right Turn NAP

2012Q2
100% Compliance
(16,012 departures)

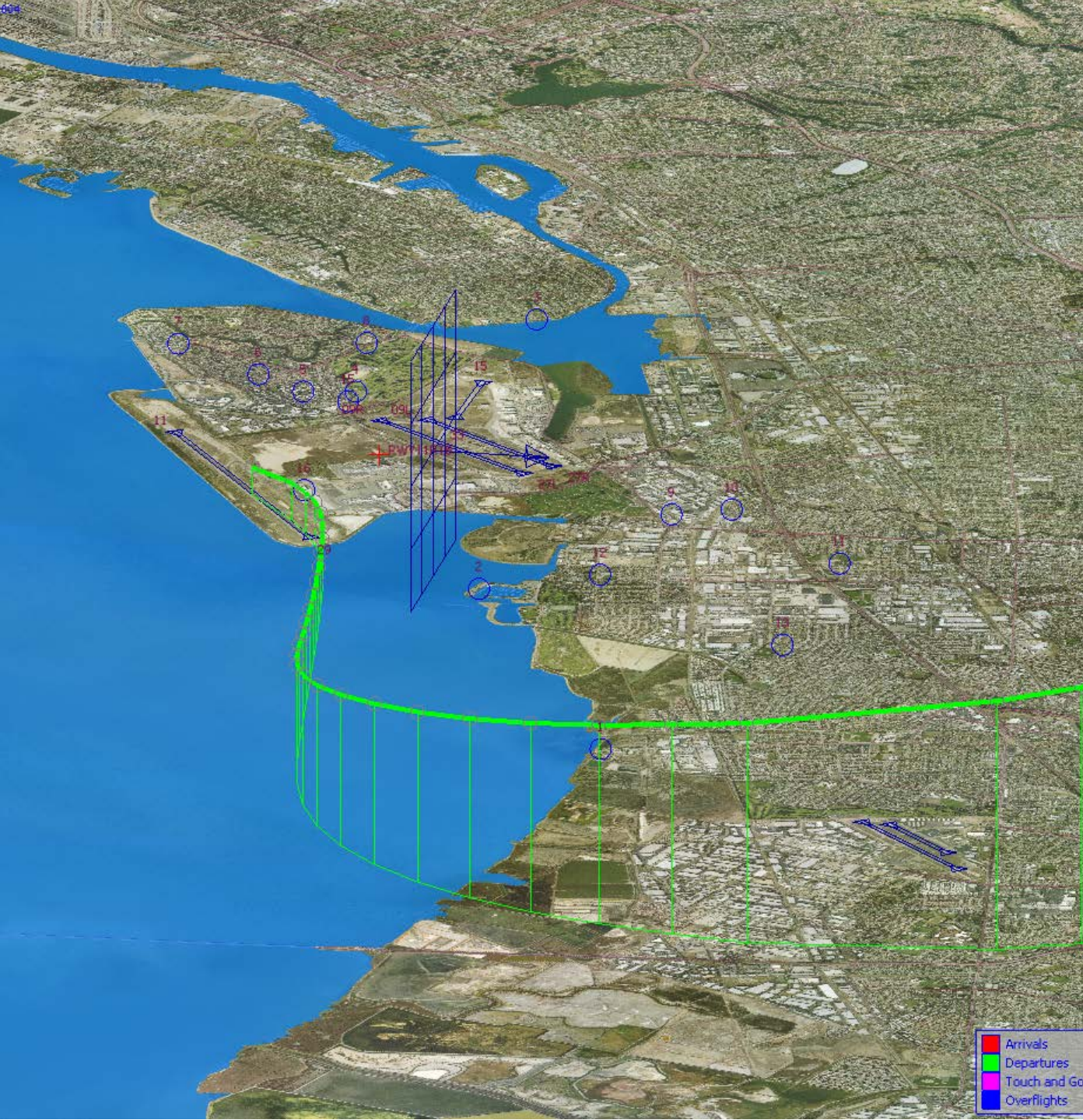
2011Q2
100% Compliance
(14,781 departures)



Runway 11 Night Departure NAP

2012Q2
96% Compliance
(52 departures)

2011Q2
92% Compliance
(48 departures)



Operation Details	
Aircraft ID:	SWA771
Tail Number:	
Beacon Code:	1156
AC Type:	B737
Operation Type:	Departure
Runway:	29
Origin:	OAK
Destination:	BOI
Altitude (ft):	4833
Ground Speed (kt):	231.3
Date/Time:	11/28/2011 10:37:46

Runway 29 East Turn NAP

2012Q2
97% Compliance
(4,218 departures)

2011Q2
98% Compliance
(4,112 departures)

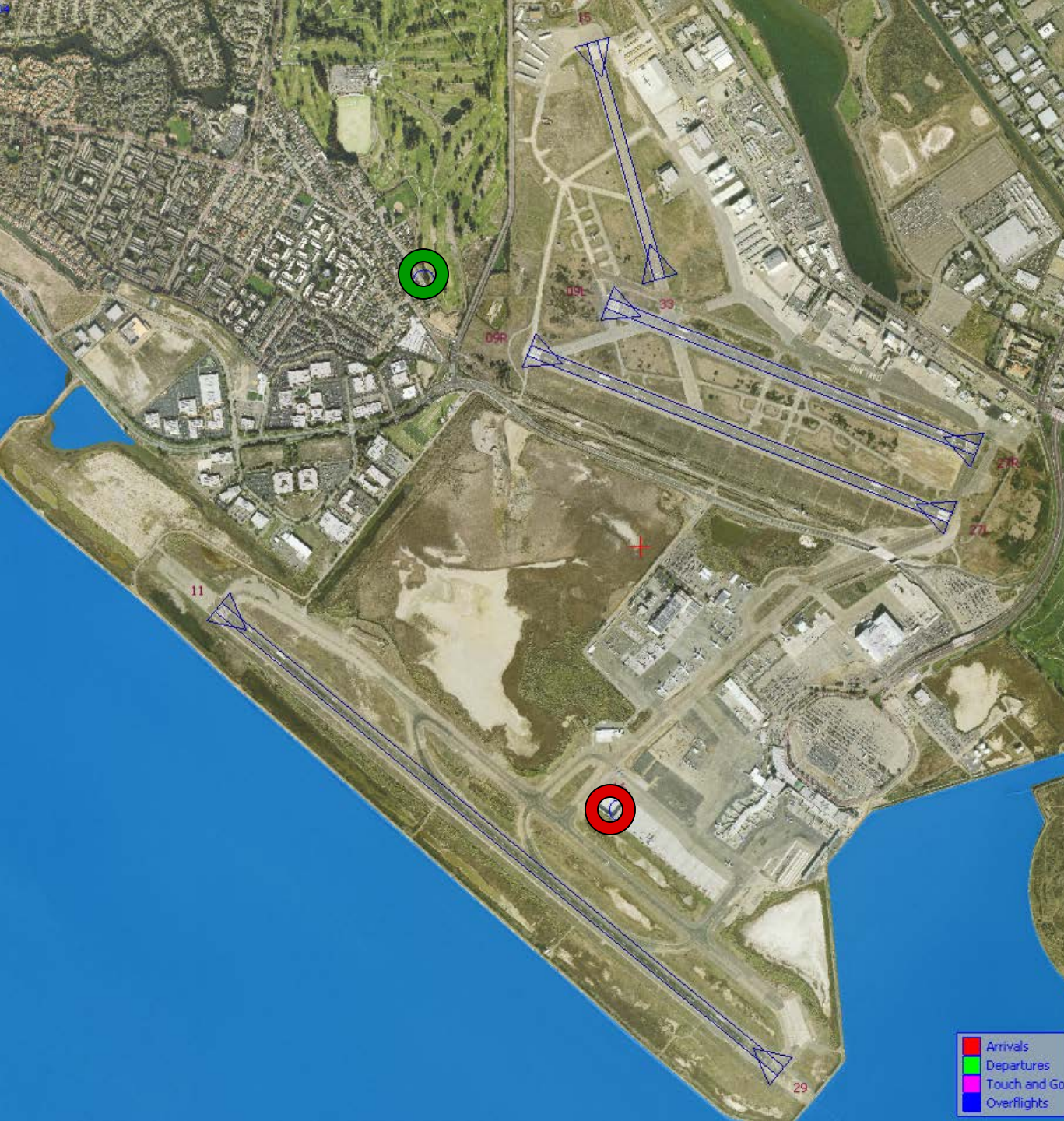


Operation Details	
Aircraft ID:	SWA273
Tail Number:	
Beacon Code:	6675
AC Type:	B737
Operation Type:	Arrival
Runway:	29
Origin:	GEG
Destination:	OAK
Altitude (ft):	3251
Ground Speed (kt):	159.4
Date/Time:	4/18/2012 19:58:23

**100 Degree Radial
At 3,000 ft. NAP**

**2012Q2
95% Compliance
(2,801 landings)**

**2011Q2
87% Compliance
(2,431 landings)**



Engine Run-up NAP

2012Q2
100% Compliance
(19 engine run-ups)*

2011Q2
100% Compliance
(24 engine run-ups)

***Only above idle-power run-ups recorded.**

Noise Monitor Terminal (NMT)

Site Map

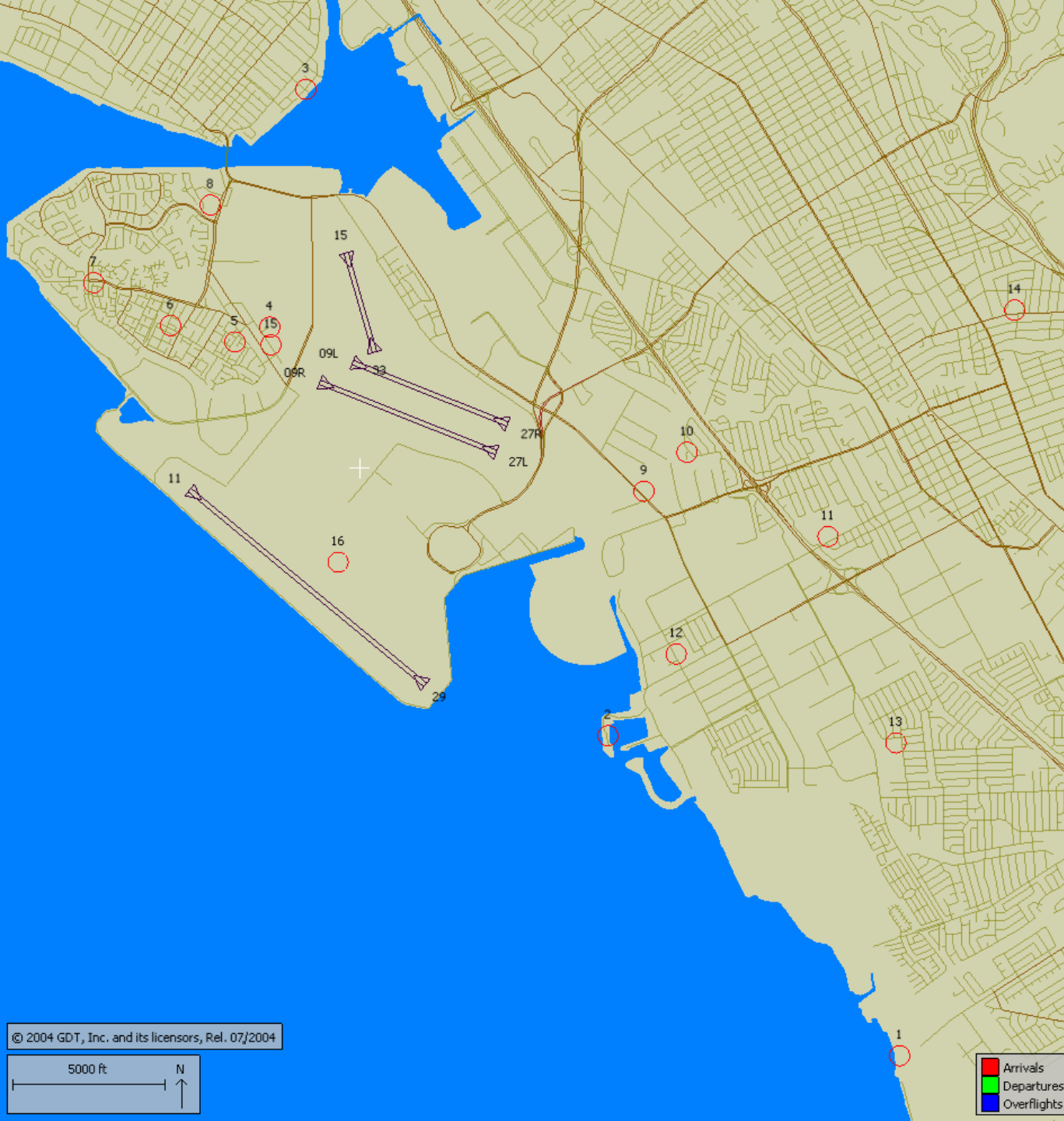


Table 1. North Field Night Aircraft Departure SEL Noise Measurements
Total Aircraft Departures = 411

Second Quarter 2012 (10:00 p.m. to 6:00 a.m.)

NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
1	3	1	0.0	0.2%	2	0.0	0.4%	0	0.0	0.0%	6
2	105	7	0.1	1.2%	0	0.0	0.0%	0	0.0	0.0%	112
3	57	5	0.1	0.9%	1	0.0	0.2%	0	0.0	0.0%	63
4	108	45	0.5	7.9%	11	0.1	1.9%	4	0.0	0.7%	168
5	71	11	0.1	1.9%	1	0.0	0.2%	3	0.0	0.5%	86
6	17	3	0.0	0.5%	1	0.0	0.2%	3	0.0	0.5%	24
7	5	4	0.0	0.7%	1	0.0	0.2%	0	0.0	0.0%	10
8	39	25	0.3	4.4%	1	0.0	0.2%	0	0.0	0.0%	65
9	52	22	0.2	3.9%	12	0.1	2.1%	2	0.0	0.4%	88
10	69	9	0.1	1.6%	5	0.1	0.9%	0	0.0	0.0%	83
11	6	5	0.1	0.9%	0	0.0	0.0%	0	0.0	0.0%	11
12	101	7	0.1	1.2%	2	0.0	0.4%	1	0.0	0.2%	111
13	10	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	12
14	11	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	13
All NMTs	654	148	2	0	37	0	0	13	0	0	852

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 207

Second Quarter 2012 (10:00 p.m. to 6:00 a.m.)											
NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
3	57	5	0.1	2.1%	1	0.0	0.4%	0	0.0	0.0%	63
4	108	45	0.5	18.8%	11	0.1	4.6%	4	0.0	1.7%	168
5	71	11	0.1	4.6%	1	0.0	0.4%	3	0.0	1.3%	86
6	17	3	0.0	1.3%	1	0.0	0.4%	3	0.0	1.3%	24
7	5	4	0.0	1.7%	1	0.0	0.4%	0	0.0	0.0%	10
8	39	25	0.3	10.5%	1	0.0	0.4%	0	0.0	0.0%	65
Total	297	93	1.0		16	0.2		10	0.1		416

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 204

Second Quarter 2012 (10:00 p.m. to 6:00 a.m.)											
NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
2	105	7	0.1	2.1%	0	0.0	0.0%	0	0.0	0.0%	112
9	52	22	0.2	6.7%	12	0.1	3.7%	2	0.0	0.6%	88
10	69	9	0.1	2.7%	5	0.1	1.5%	0	0.0	0.0%	83
11	6	5	0.1	1.5%	0	0.0	0.0%	0	0.0	0.0%	11
12	101	7	0.1	2.1%	2	0.0	0.6%	1	0.0	0.3%	111
13	10	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	12
14	11	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	13
Total	354	54	0.6		19	0.2		3	0.0		430

Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
Second Quarter 2012, NMT 2

	Aircraft Departures	Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)
Baseline (November 2002) [A]					
B727	104	101	76	87	44
DC10/MD10	87	32	69	78	22
MD11	32	13	70	79	24
A306	67	21	67	77	25
Second Quarter 2012 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	-	-	-	na	na
DC10/MD10	149	50	42	66	75
MD11	214	71	89	66	75
A306	214	71	23	67	75
B757	54	18	3	67	72
Difference [A-B]					
B727		-104	na	na	na
DC10/MD10		-37	10	-3	-3
MD11		39	76	-4	-4
A306		4	2	-1	-2

(a) For the current calendar quarter reported, ANOMS does not correlate all departures to their respective noise events; that is most, but not all, aircraft back-blast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event.

Source: ANOMS (Airport Noise and Operations Monitoring System)

**Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
Second Quarter 2011, NMT 2**

	Aircraft Departures	Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)
Baseline (November 2002) [A]					
B727	104	101	76	87	44
DC10/MD10	87	32	69	78	22
MD11	32	13	70	79	24
A306	67	21	67	77	25
2nd Quarter April through June 2010 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	2	1	2	74	27
DC10/MD10	155	52	46	67	18
MD11	220	73	94	68	20
A306	234	78	41	66	18
Difference [A-B]					
B727		-103	-99	-2	-17
DC10/MD10		-35	14	-2	-4
MD11		41	81	-2	-4
A306		11	20	-1	-7

(a) For the current calendar quarter reported, ANOMS does not correlate all departures to their respective noise events; that is most, but not all, aircraft back-blast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event.

Source: ANOMS (Airport Noise and Operations Monitoring System)

