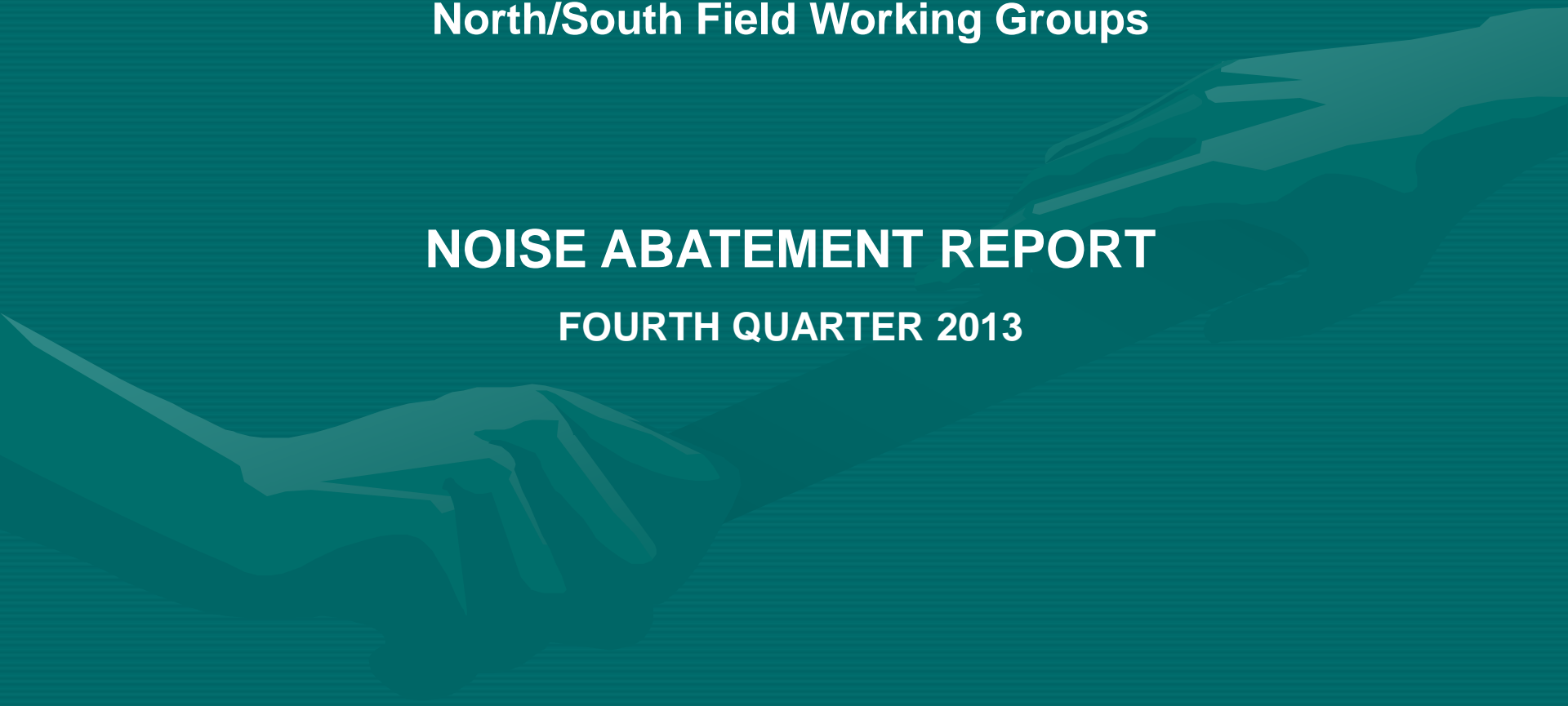


NOISE FORUM SUMMARY

North/South Field Working Groups

NOISE ABATEMENT REPORT

FOURTH QUARTER 2013



**Compliance Monitoring Quarterly Summary Comparison
Fourth Quarter 2013**

	2012Q4		2013Q4	
	Compl.	N/C	Compl.	N/C
Runway 27R/L Jet Departure Compliance	97%	3%	95%	5%
Total Airport-wide Corporate Jet Departures	2,421	88	2,468	130
Runway 09R/L Jet Landing Compliance	78%	22%	100%	0%
Total Southeast Plan Corporate Jet Landings	299	82	5	0
North Field VFR Departure Compliance	95%	5%	96%	4%
Total Runways 27R/L & 33 Departures	832	40	957	36
North Field Quiet Hours Compliance	86%	14%	86%	14%
Total North Field Quiet Hours Departures	146	24	185	26
Runway 29 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 29 Turbojet Departures	13,895	4	15,888	4
Silent7 Night Departure Compliance	99%	1%	99%	1%
Total Runway 29 Night Turbojet Departures	2,357	21	2,797	24
Runway 11 Night Departure Compliance	95%	5%	100%	0%
Total Runway 11 Night Turbojet Departures	249	14	14	0
Runway 29 East Turn Departure Compliance	98%	2%	97%	3%
Total Runway 29 East Turn Departures	3,584	85	4,071	125
100 Degree Radial Turbojet Landing Compliance	91%	9%	86%	14%
Total 100 Degree Radial Turbojet Landings	2,147	192	1,713	242
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	15	0	12	0

Link to full report: http://flyquietoak.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

2013Q4
95% Compliance
(2,598 departures)

2012Q4
96% Compliance
(2,509 departures)

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© 2007 AirPhoto USA, Rel. nov 2005

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

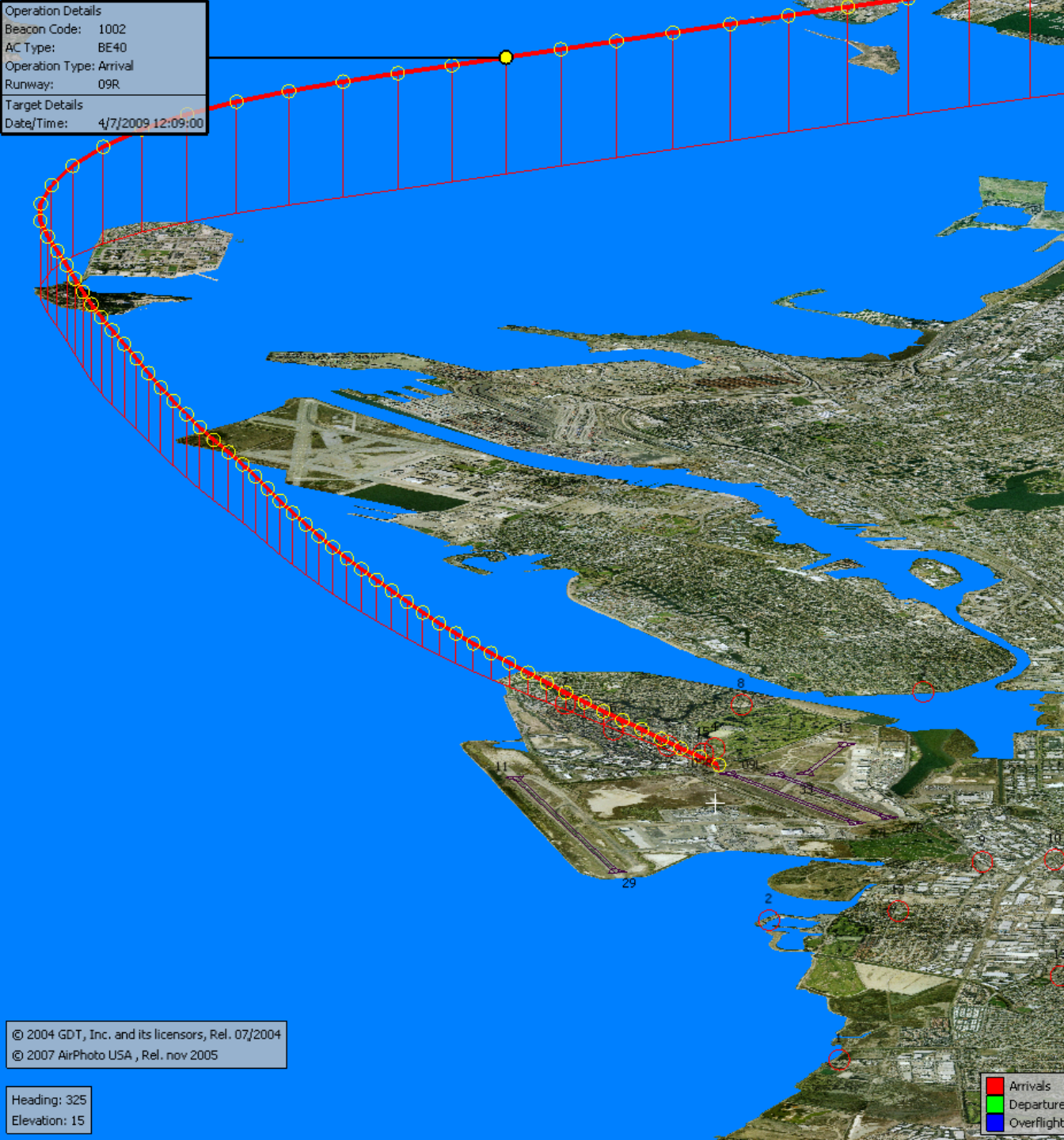
2013Q4
100% Compliance
(5 landings)

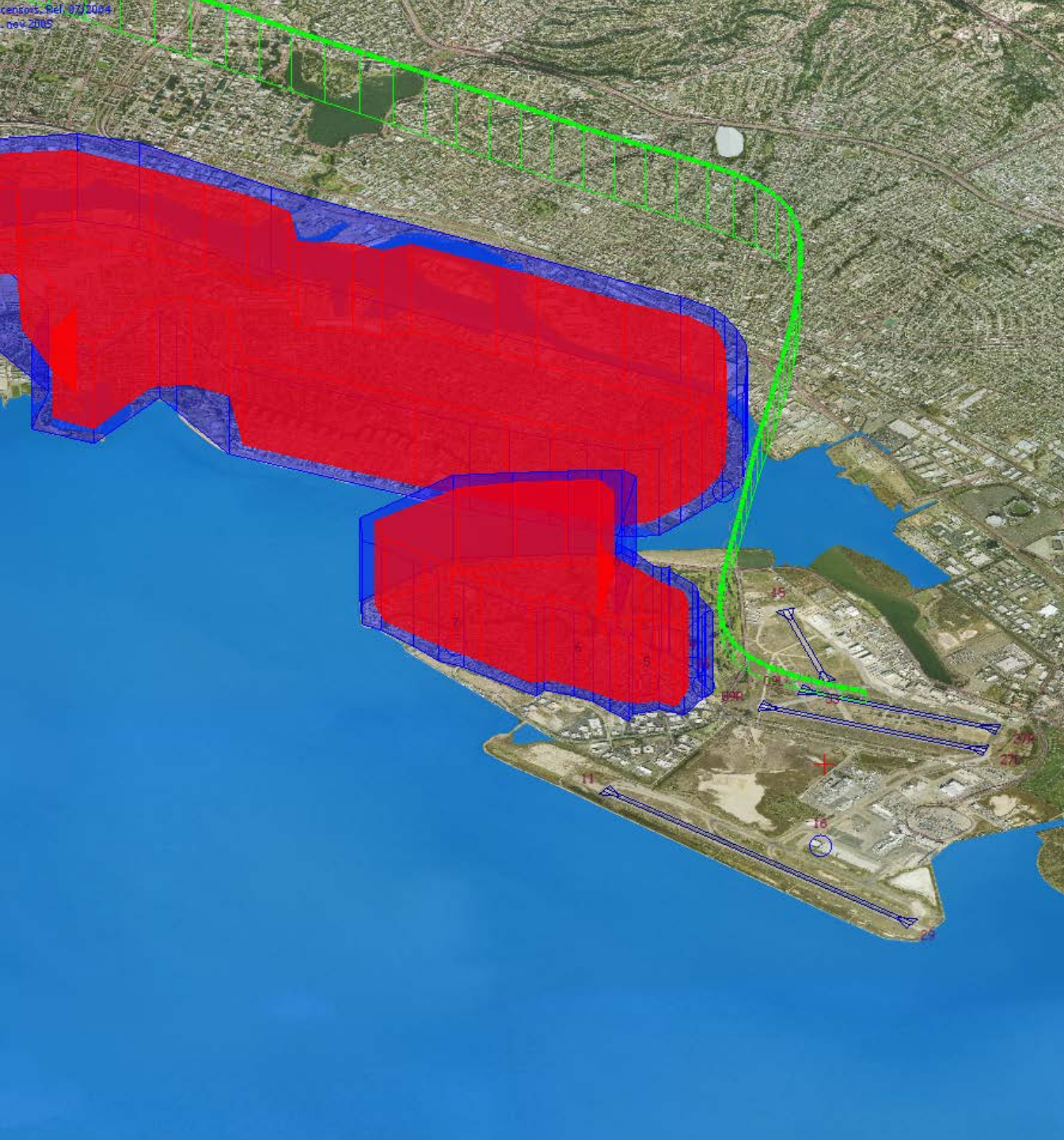
2012Q4
78% Compliance
(381 landings)

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© 2007 AirPhoto USA, Rel. nov 2005

Heading: 325
Elevation: 15

Arrivals
Departures
Overflights





VFR Aircraft Departure NAP

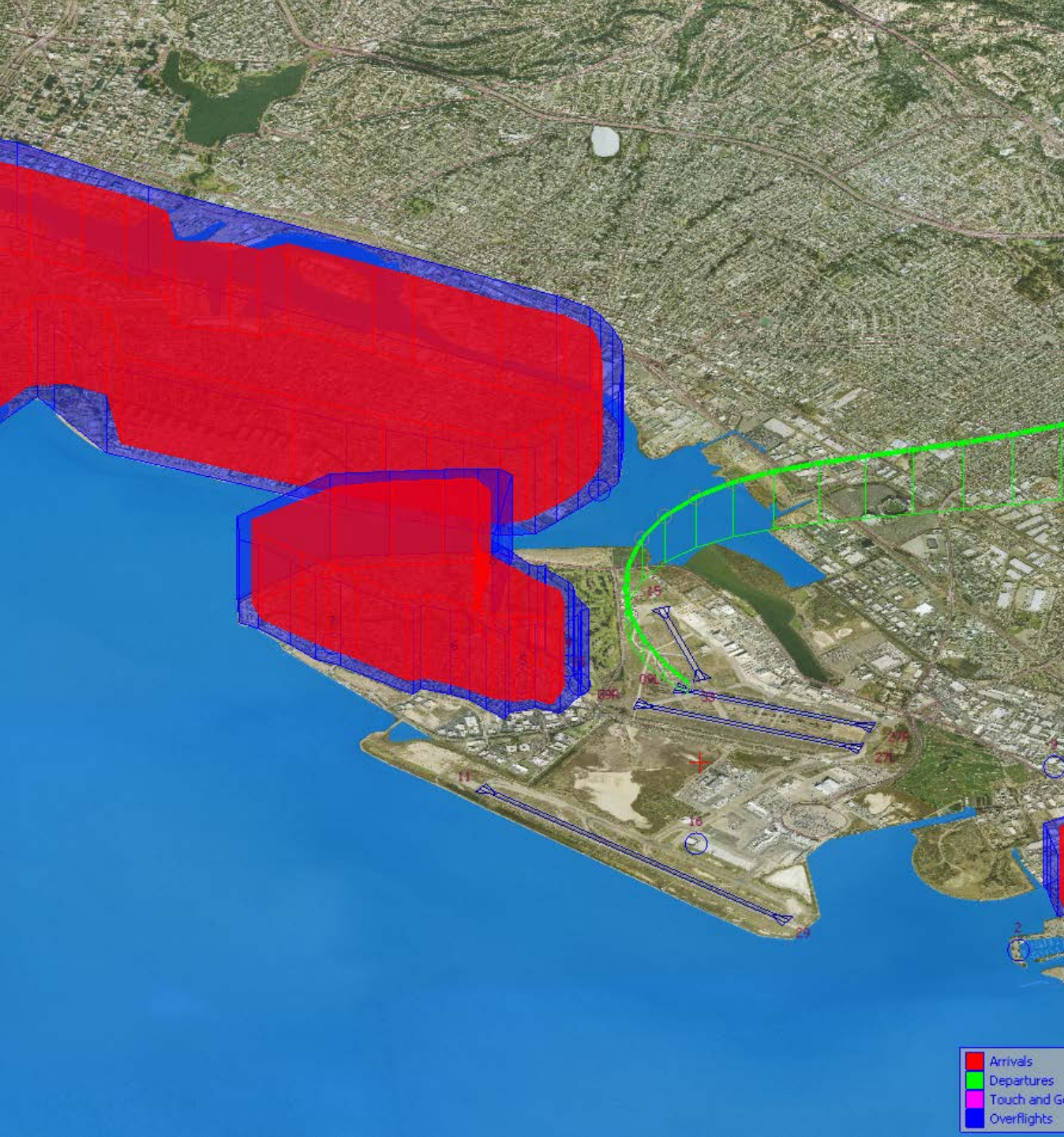
2013Q4
96% Compliance
(993 departures)

2012Q4
97% Compliance
(872 departures)

North Field Quiet Hours NAP

2013Q4
86% Compliance
(211 departures)

2012Q4
86% Compliance
(170 departures)



Runway 29 Bay Farm Right Turn NAP

2013Q4
100% Compliance
(15,892 departures)

2012Q4
100% Compliance
(13,899 departures)

Silent7 Night Departure NAP

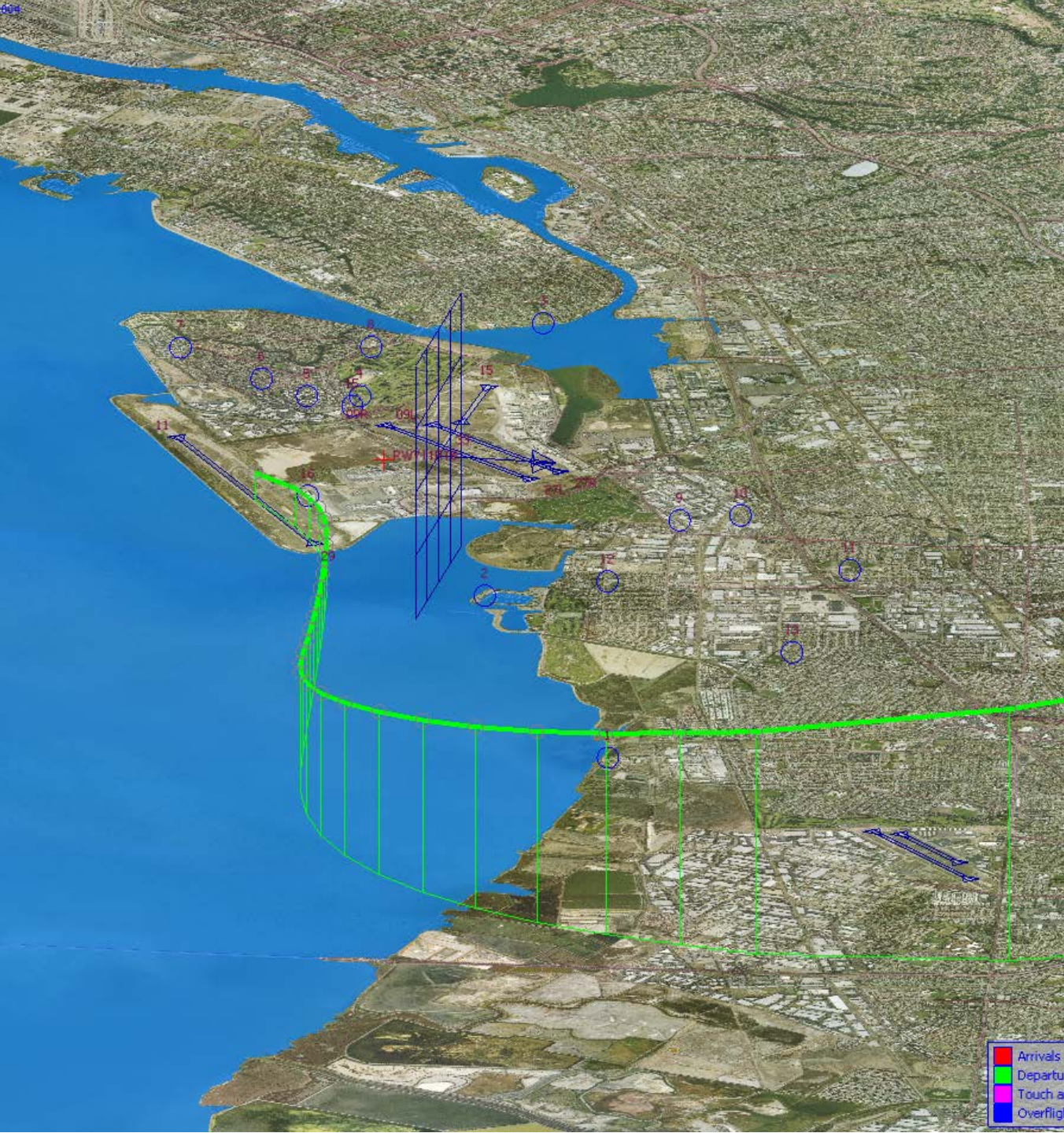
2013Q4
99% Compliance
(2,821 departures)

2012Q4
99% Compliance
(2,378 departures)

Runway 11 Night Departure NAP

2013Q4
100% Compliance
(14 departures)

2012Q4
95% Compliance
(263 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

2013Q4
97% Compliance
(4,196 departures)

2012Q4
98% Compliance
(3,669 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**

**2013Q4
86% Compliance
(1,955 landings)**

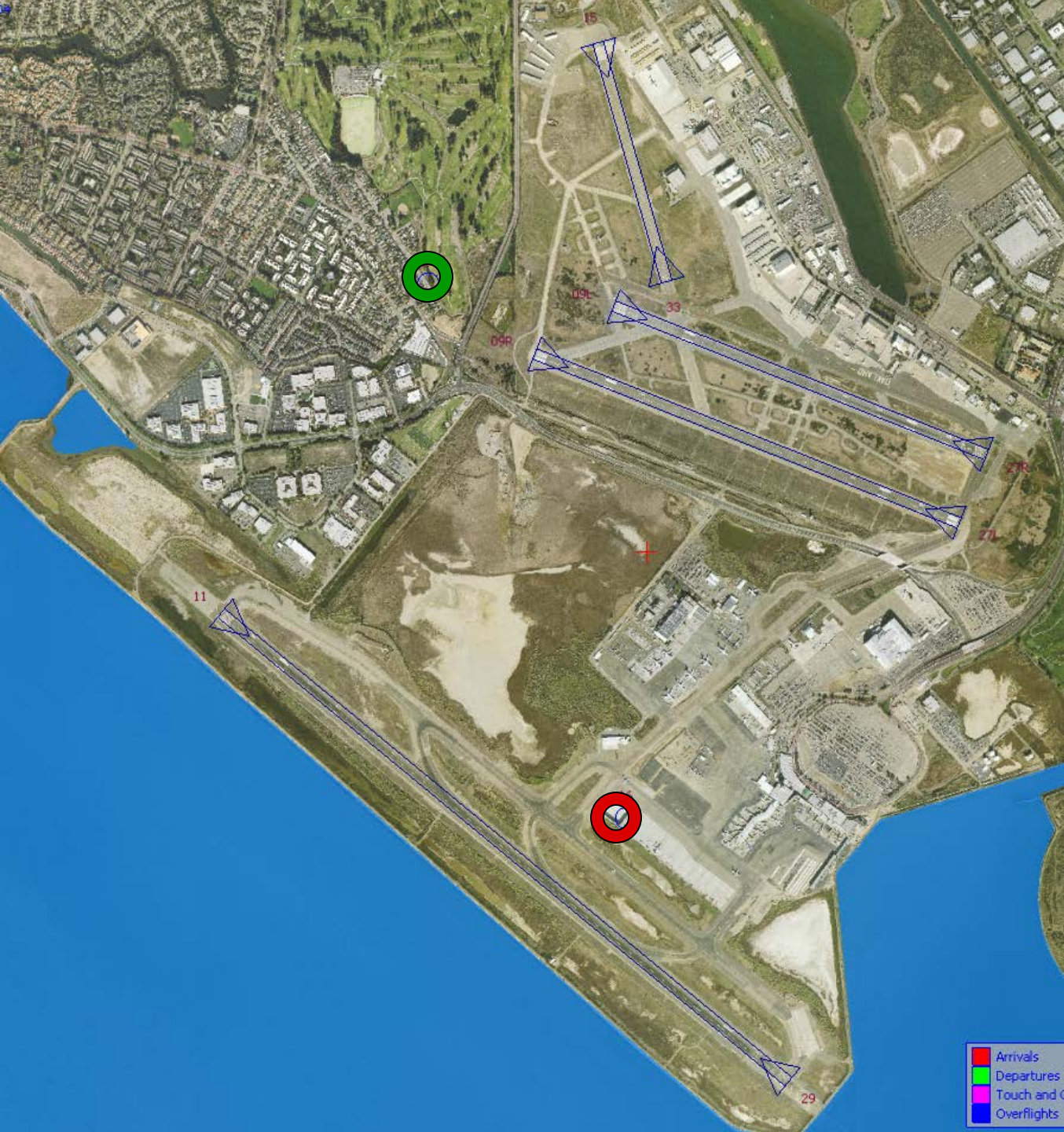
**2012Q4
91% Compliance
(2,339 landings)**

Engine Run-up NAP

2013Q4
100% Compliance
(12 engine run-ups)*

2012Q4
100% Compliance
(15 engine run-ups)

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



Noise Monitor Terminal (NMT)

Site Map

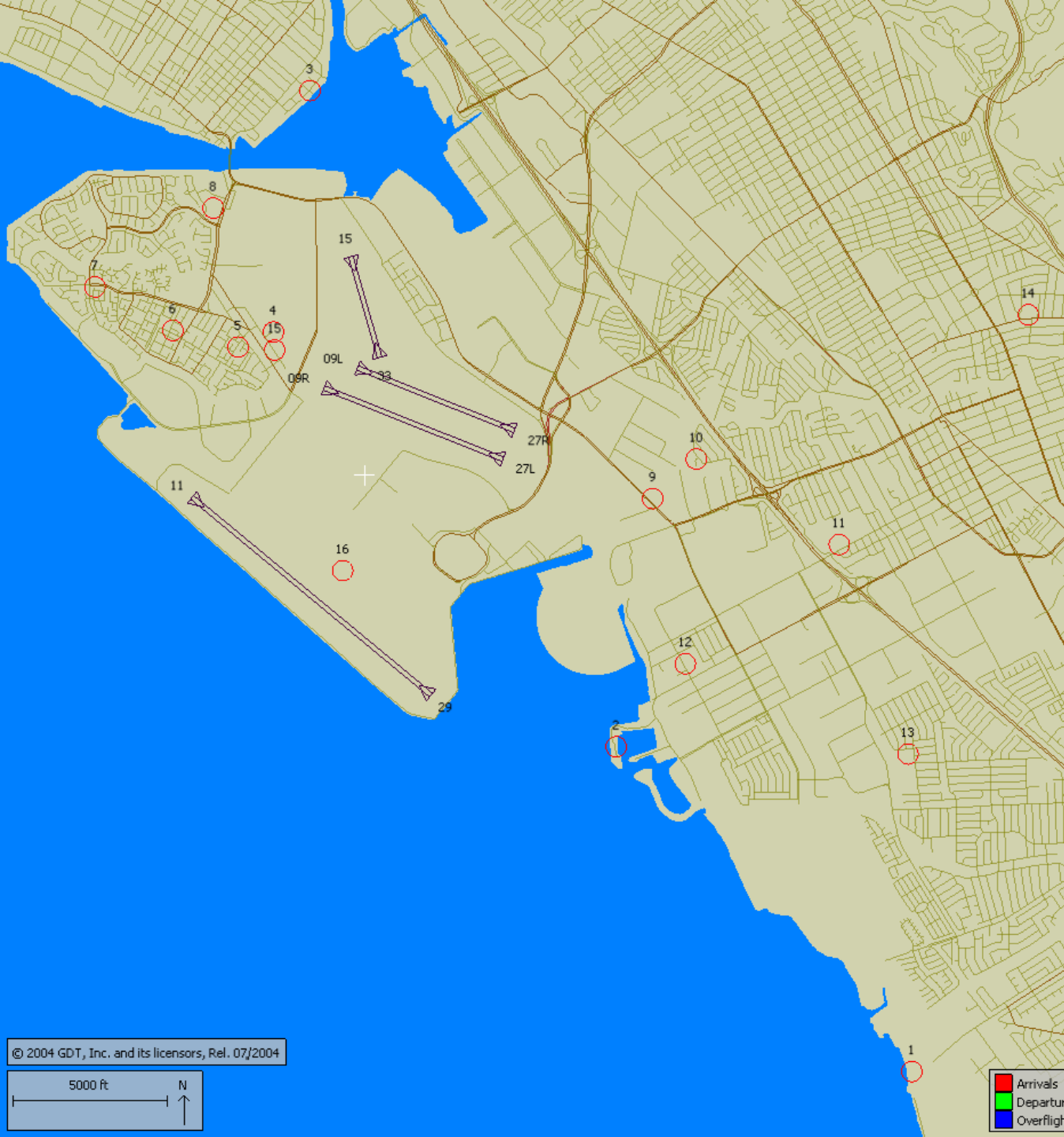


Table 1. North Field Night Aircraft Departure SEL Noise Measurements
Total Aircraft Departures = 185

Fourth Quarter 2013 (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	2	1	0.0	0.2%	1	0.0	0.2%	0	0.0	0.0%	4
2	7	3	0.0	0.5%	1	0.0	0.2%	0	0.0	0.0%	11
3	39	5	0.1	0.9%	1	0.0	0.2%	0	0.0	0.0%	45
4	47	43	0.5	7.6%	20	0.2	3.5%	40	0.4	7.1%	150
5	50	16	0.2	2.8%	4	0.0	0.7%	43	0.5	7.6%	113
6	19	7	0.1	1.2%	19	0.2	3.4%	24	0.3	4.2%	69
7	22	18	0.2	3.2%	18	0.2	3.2%	1	0.0	0.2%	59
8	35	31	0.3	5.5%	4	0.0	0.7%	1	0.0	0.2%	71
9	3	17	0.2	3.0%	5	0.1	0.9%	3	0.0	0.5%	28
10	46	28	0.3	4.9%	4	0.0	0.7%	0	0.0	0.0%	78
11	0	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	1
12	6	13	0.1	2.3%	6	0.1	1.1%	1	0.0	0.2%	26
13	10	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	12
14	4	0	0.0	0.0%	1	0.0	0.2%	0	0.0	0.0%	5
All NMTs	290	185	2	0	84	1	0	113	1	0	672

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 153

Fourth Quarter 2013 (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	39	5	0.1	2.1%	1	0.0	0.4%	0	0.0	0.0%	45
4	47	43	0.5	18.0%	20	0.2	8.4%	40	0.4	16.7%	150
5	50	16	0.2	6.7%	4	0.0	1.7%	43	0.5	18.0%	113
6	19	7	0.1	2.9%	19	0.2	7.9%	24	0.3	10.0%	69
7	22	18	0.2	7.5%	18	0.2	7.5%	1	0.0	0.4%	59
8	35	31	0.3	13.0%	4	0.0	1.7%	1	0.0	0.4%	71
Total	212	120	1.3		66	0.7		109	1.2		507

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 32

Fourth Quarter 2013 (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	7	3	0.0	0.9%	1	0.0	0.3%	0	0.0	0.0%	11
9	3	17	0.2	5.2%	5	0.1	1.5%	3	0.0	0.9%	28
10	46	28	0.3	8.5%	4	0.0	1.2%	0	0.0	0.0%	78
11	0	1	0.0	0.3%	0	0.0	0.0%	0	0.0	0.0%	1
12	6	13	0.1	4.0%	6	0.1	1.8%	1	0.0	0.3%	26
13	10	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	12
14	4	0	0.0	0.0%	1	0.0	0.3%	0	0.0	0.0%	5
Total	76	64	0.7		17	0.2		4	0.0		161

**Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
Fourth 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
Fourth Quarter 2012 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	6	2	5	80	90
DC10/MD10	149	50	97	67	77
MD11	178	59	131	68	78
A306	143	48	64	66	75
B757	49	16	22	66	75
Difference [A-B]					
B727		-102	-96	4	3
DC10/MD10		-37	65	-2	-1
MD11		27	118	-2	-1
A306		-19	43	-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)

