

NOISE FORUM SUMMARY

North/South Field Working Groups

NOISE ABATEMENT REPORT

FIRST QUARTER 2015

**Compliance Monitoring Quarterly Summary Comparison
First Quarter 2015**

	2014Q1		2015Q1	
	Compl.	N/C	Compl.	N/C
Runway 28R/L Jet Departure Compliance	95%	5%	95%	5%
Total Airport-wide Corporate Jet Departures	2,526	132	2,736	154
Runway 10R/L Jet Landing Compliance	79%	21%	83%	17%
Total Southeast Plan Corporate Jet Landings	225	60	111	22
North Field VFR Departure Compliance	97%	3%	96%	4%
Total Runways 28R/L & 33 Departures	831	25	982	42
North Field Quiet Hours Compliance	84%	16%	67%	33%
Total North Field Quiet Hours Departures	163	32	123	61
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 Turbojet Departures	13,087	3	14,914	6
Silent8 Night Departure Compliance	99%	1%	99%	1%
Total Runway 30 Night Turbojet Departures	2,283	34	2,830	39
Runway 12 Night Departure Compliance	71%	29%	47%	53%
Total Runway 12 Night Turbojet Departures	124	50	21	24
Runway 30 East Turn Departure Compliance	97%	3%	98%	2%
Total Runway 30 East Turn Departures	2,941	85	3,801	91
100 Degree Radial Turbojet Landing Compliance	86%	14%	87%	13%
Total 100 Degree Radial Turbojet Landings	1,027	166	1,786	263
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	7	0	11	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 28R/L Jet Departure NAP

2015Q1
95% Compliance
(2,890 departures)

2014Q1
95% Compliance
(2,658 departures)

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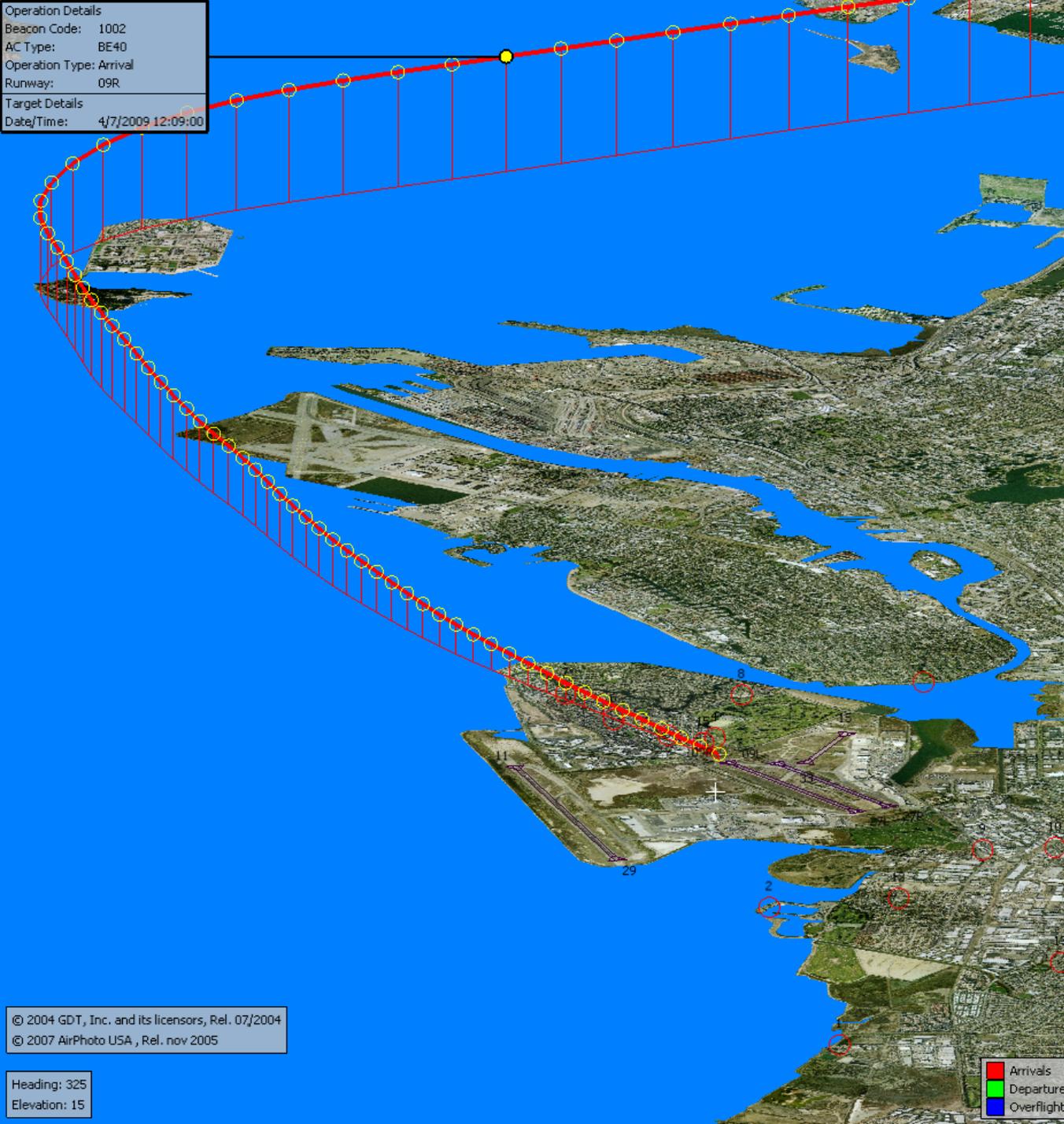
Heading: 325
Elevation: 15

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 10R/L Jet Landing NAP

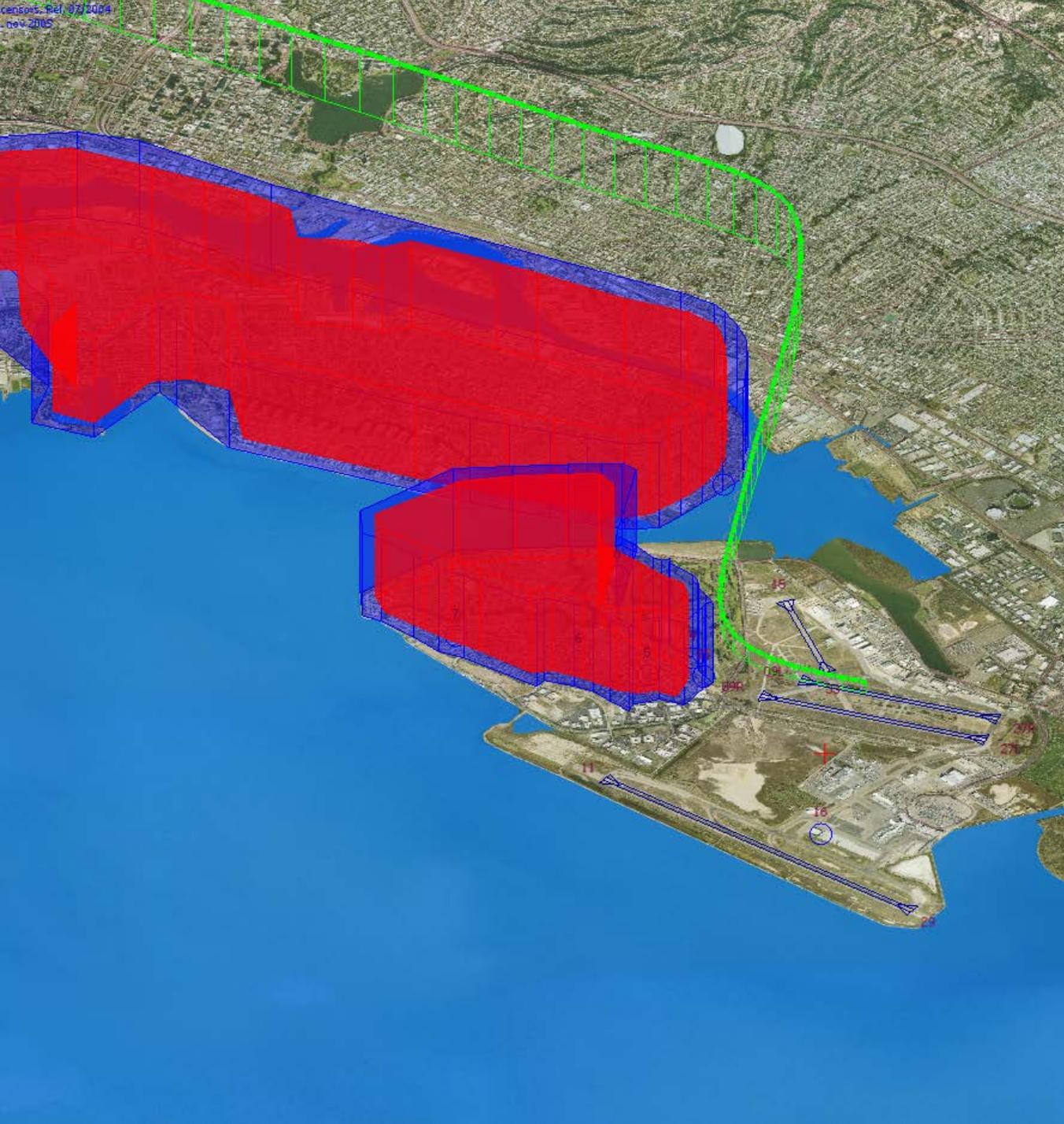
2015Q1
83% Compliance
(133 landings)

2014Q1
79% Compliance
(285 landings)

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Heading: 325
Elevation: 15

Arrivals
Departures
Overflights



VFR Aircraft Departure NAP

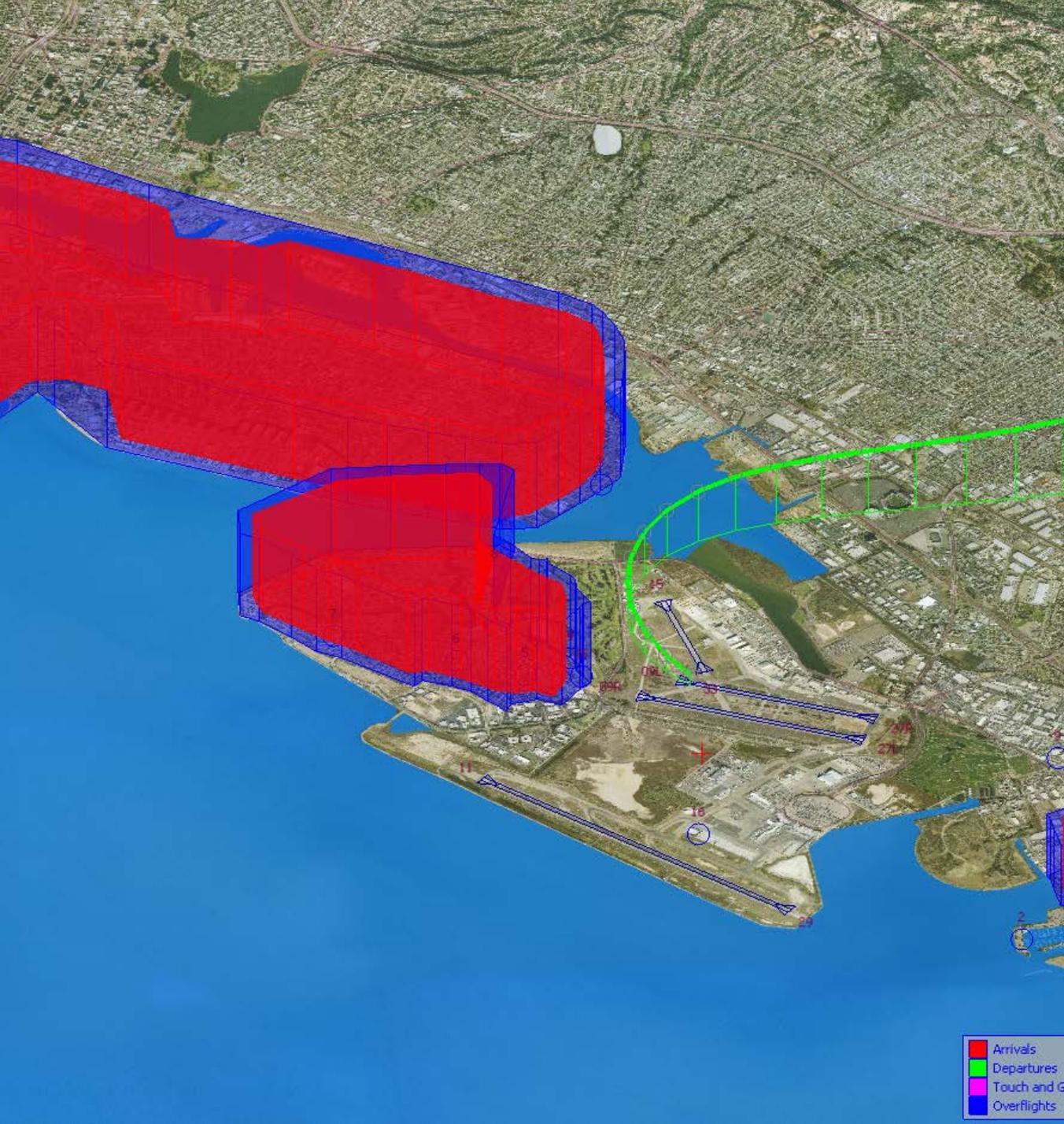
2015Q1
96% Compliance
(1,024 departures)

2014Q1
97% Compliance
(856 departures)

North Field Quiet Hours NAP

2015Q1
67% Compliance
(184 departures)

2014Q1
84% Compliance
(195 departures)

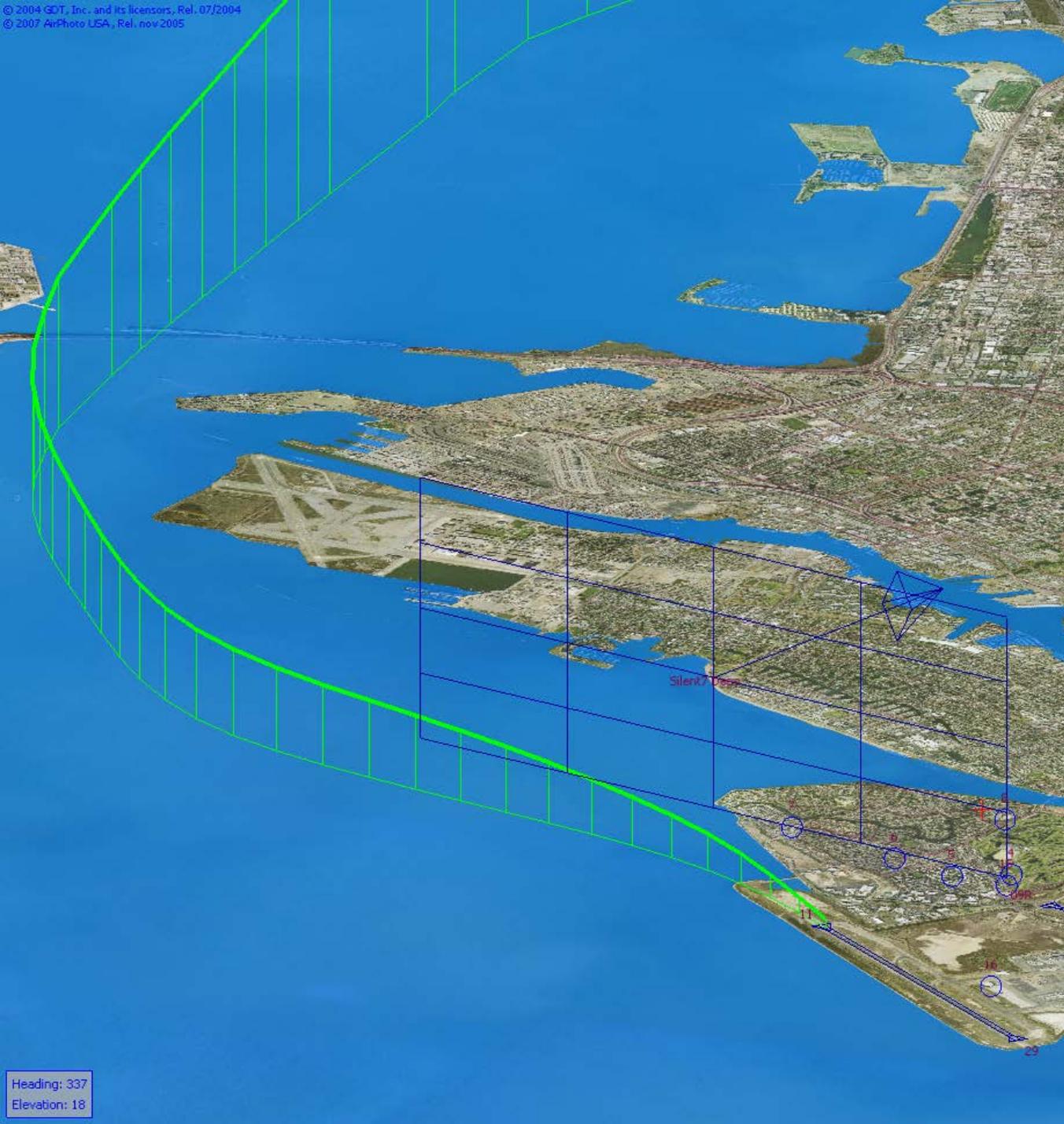




Runway 30 Bay Farm Right Turn NAP

2015Q1
100% Compliance
(14,920 departures)

2014Q1
100% Compliance
(13,090 departures)



Silent8 Night Departure NAP

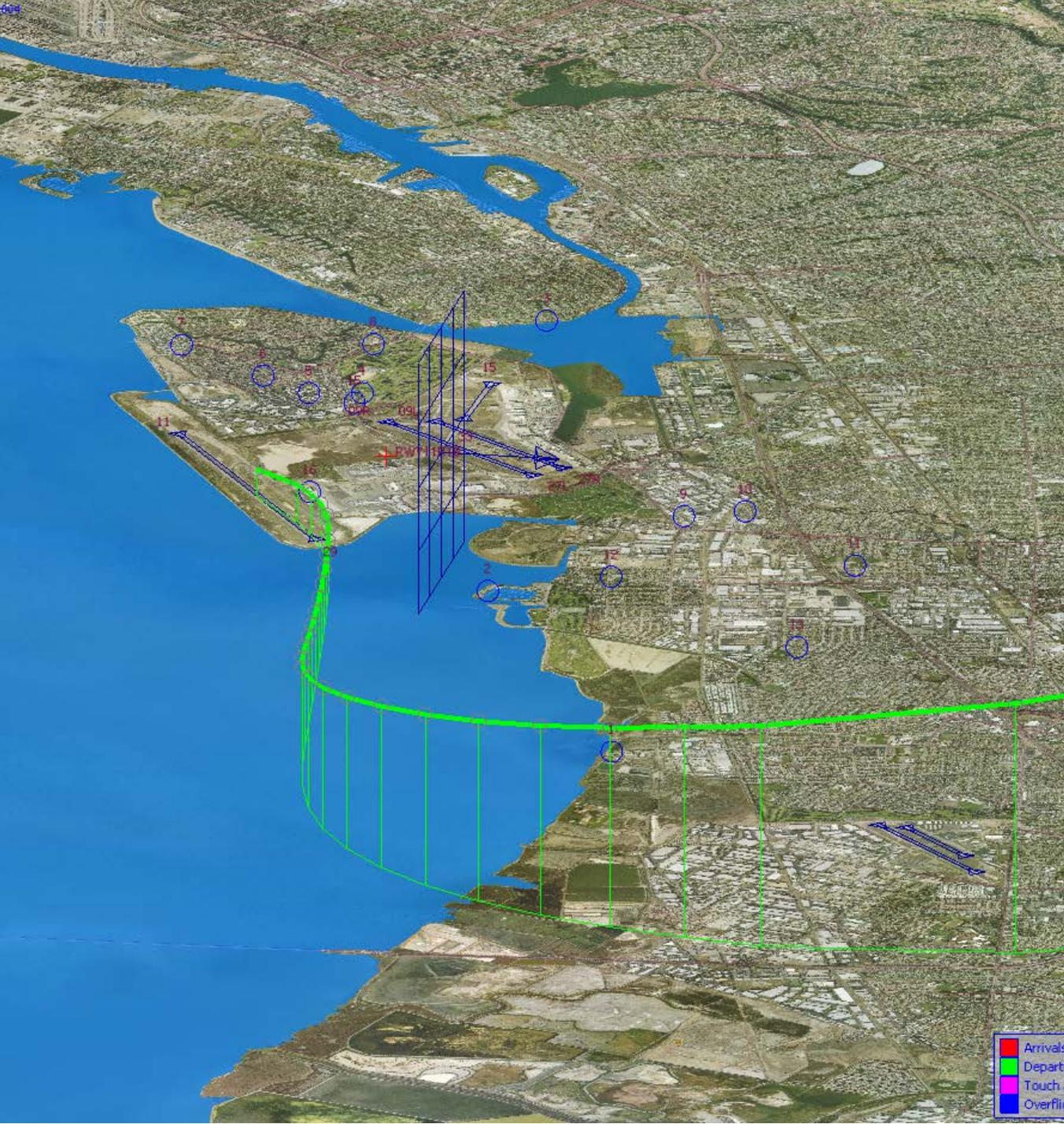
2015Q1
99% Compliance
(2,869 departures)

2014Q1
99% Compliance
(2,317 departures)

Runway 12 Night Departure NAP

2015Q1
47% Compliance
(45 departures)

2014Q1
71% Compliance
(174 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 30 East Turn NAP

2015Q1
98% Compliance
(3,892 departures)

2014Q1
97% Compliance
(3,026 departures)



- Arrivals
- Departure
- Touch and Go
- Overflight

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

2015Q1
87% Compliance
(2,049 landings)

2014Q1
86% Compliance
(1,831 landings)

Engine Run-up NAP

2015Q1
100% Compliance
(7 engine run-ups)*

2014Q1
100% Compliance
(11 engine run-ups)

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

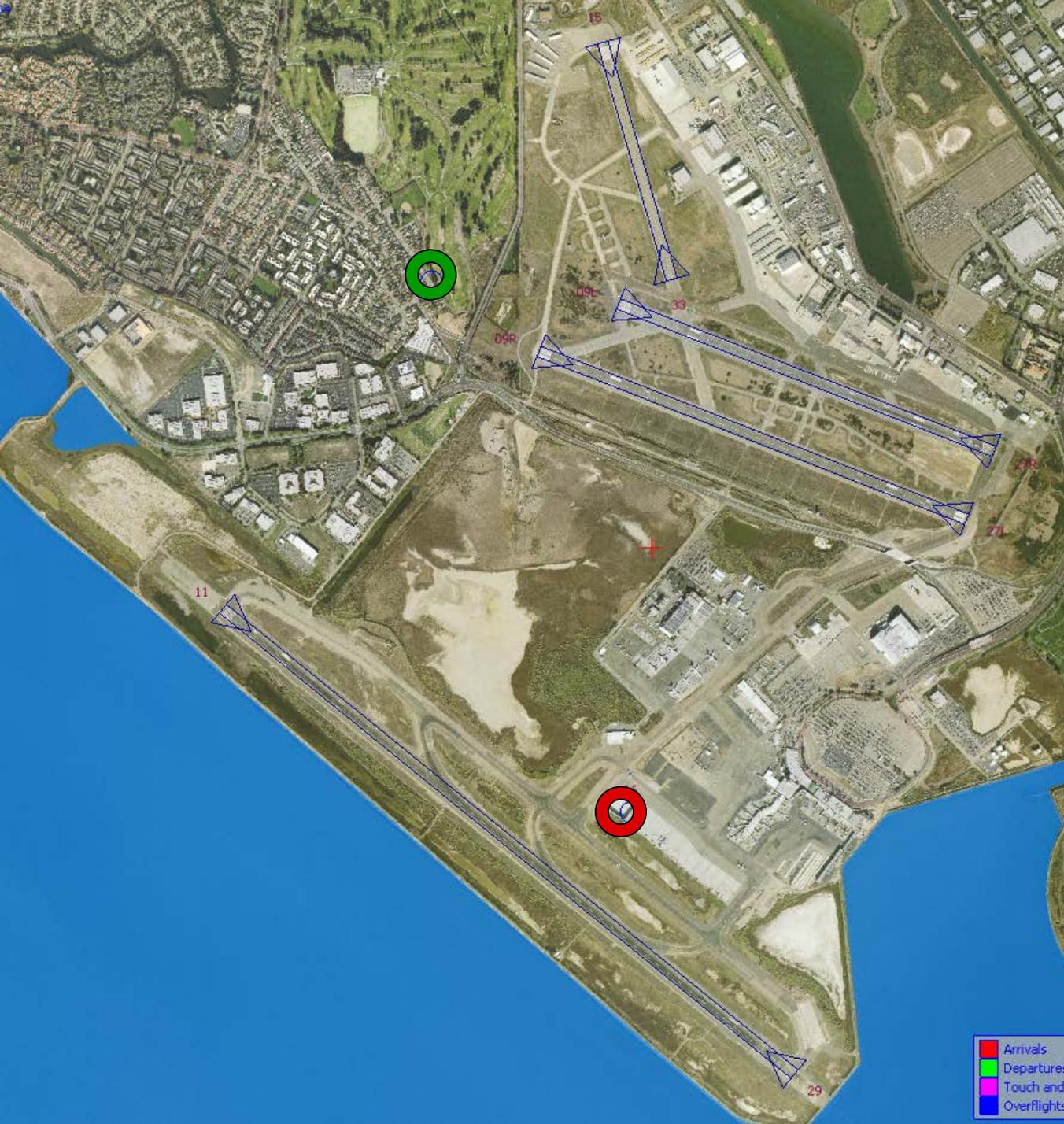


Table 1. North Field Night Aircraft Departure SEL Noise Measurements
Total Aircraft Departures = 184

First Quarter 2015 (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	5	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	6
2	12	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	14
3	43	8	0.1	1.4%	1	0.0	0.2%	0	0.0	0.0%	52
4	49	41	0.5	7.2%	20	0.2	3.5%	11	0.1	1.9%	121
5	49	9	0.1	1.6%	7	0.1	1.2%	5	0.1	0.9%	70
6	19	6	0.1	1.1%	7	0.1	1.2%	5	0.1	0.9%	37
7	9	7	0.1	1.2%	6	0.1	1.1%	0	0.0	0.0%	22
8	40	22	0.2	3.9%	3	0.0	0.5%	0	0.0	0.0%	65
9	3	8	0.1	1.4%	11	0.1	1.9%	7	0.1	1.2%	29
10	27	23	0.3	4.1%	6	0.1	1.1%	1	0.0	0.2%	57
11	11	4	0.0	0.7%	2	0.0	0.4%	0	0.0	0.0%	17
12	8	2	0.0	0.4%	1	0.0	0.2%	0	0.0	0.0%	11
13	6	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	8
14	8	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	9
All NMTs	289	136	2	0	64	1	0	29	0	0	518

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 152

First Quarter 2015 (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	43	8	0.1	3.3%	1	0.0	0.4%	0	0.0	0.0%	52
4	49	41	0.5	17.2%	20	0.2	8.4%	11	0.1	4.6%	121
5	49	9	0.1	3.8%	7	0.1	2.9%	5	0.1	2.1%	70
6	19	6	0.1	2.5%	7	0.1	2.9%	5	0.1	2.1%	37
7	9	7	0.1	2.9%	6	0.1	2.5%	0	0.0	0.0%	22
8	40	22	0.2	9.2%	3	0.0	1.3%	0	0.0	0.0%	65
Total	209	93	1.0		44	0.5		21	0.2		367

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

First Quarter 2015 (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	12	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	14
9	3	8	0.1	2.4%	11	0.1	3.4%	7	0.1	2.1%	29
10	27	23	0.3	7.0%	6	0.1	1.8%	1	0.0	0.3%	57
11	11	4	0.0	1.2%	2	0.0	0.6%	0	0.0	0.0%	17
12	8	2	0.0	0.6%	1	0.0	0.3%	0	0.0	0.0%	11
13	6	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	8
14	8	1	0.0	0.3%	0	0.0	0.0%	0	0.0	0.0%	9
Total	75	42	0.5		20	0.2		8	0.1		145

**Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
First Quarter 2015, 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
First Quarter 2015 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	0	-	-	-	-
DC10/MD10	123	41	71	68	20
MD11	176	59	117	69	20
A306	137	46	70	66	16
B757	174	58	80	66	18
B777	0	-	-	-	-
Difference [A-B]					
B727		-104	-101	-76	-87
DC10/MD10		-46	39	-1	-1
MD11		27	104	-1	-1
A306		-21	49	-1	-2

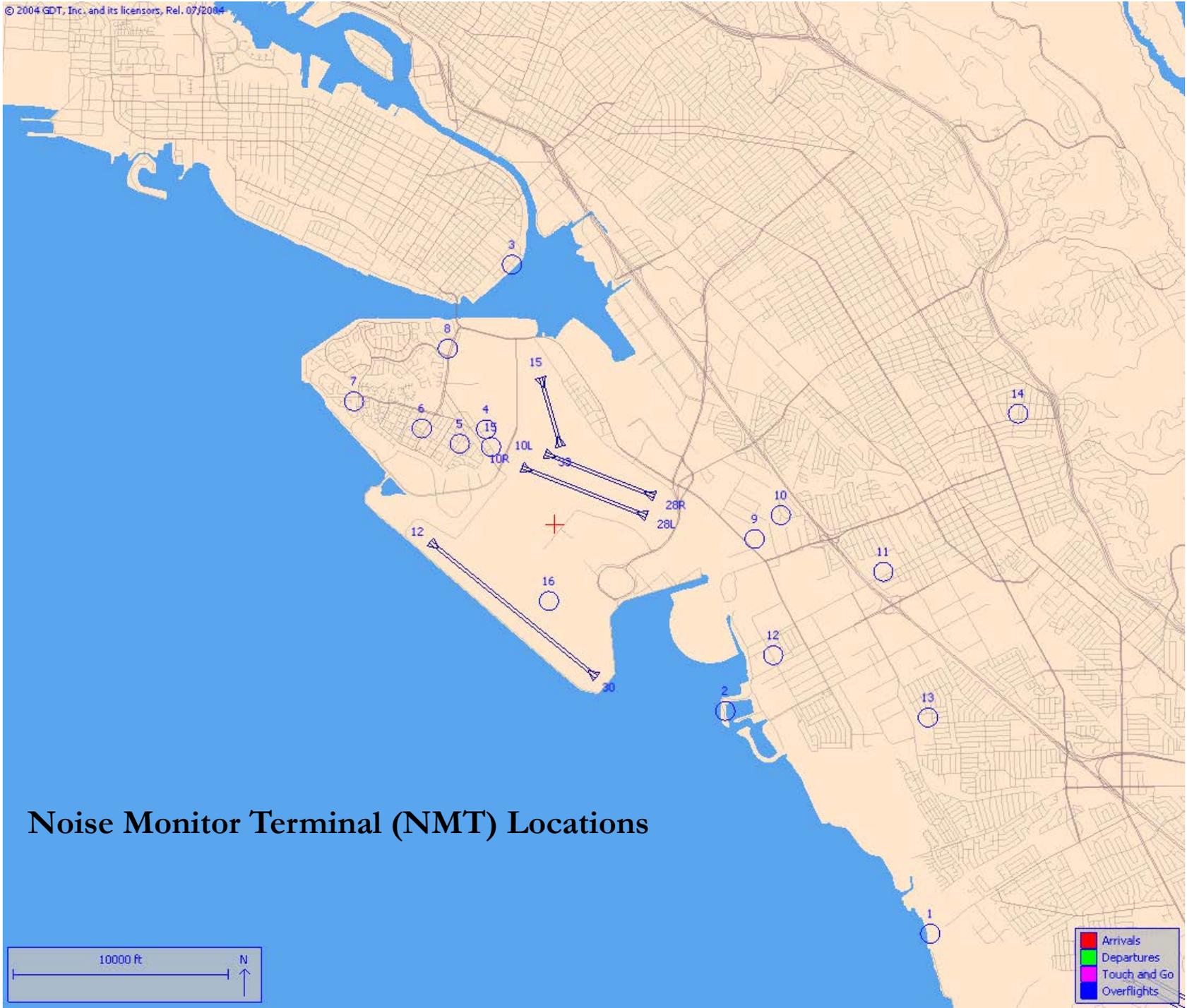
(a) For the current calendar quarter reported, ANOMS does not correlate all departures to their respective noise events; that is most, but not all, aircraft back-blast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event.
Source: ANOMS (Airport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

**Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
First Quarter 2014, 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
First Quarter 2014 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	0	-	-	-	-
DC10/MD10	132	44	34	68	24
MD11	171	57	49	70	25
A306	96	32	20	67	19
B757	155	52	39	67	23
Difference [A-B]					
B727		-104	-101	-76	-87
DC10/MD10		-43	2	-1	0
MD11		25	36	0	0
A306		-35	-1	0	-1

(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)



Noise Monitor Terminal (NMT) Locations

