### NOISE FORUM SUMMARY

#### North/South Field Working Groups

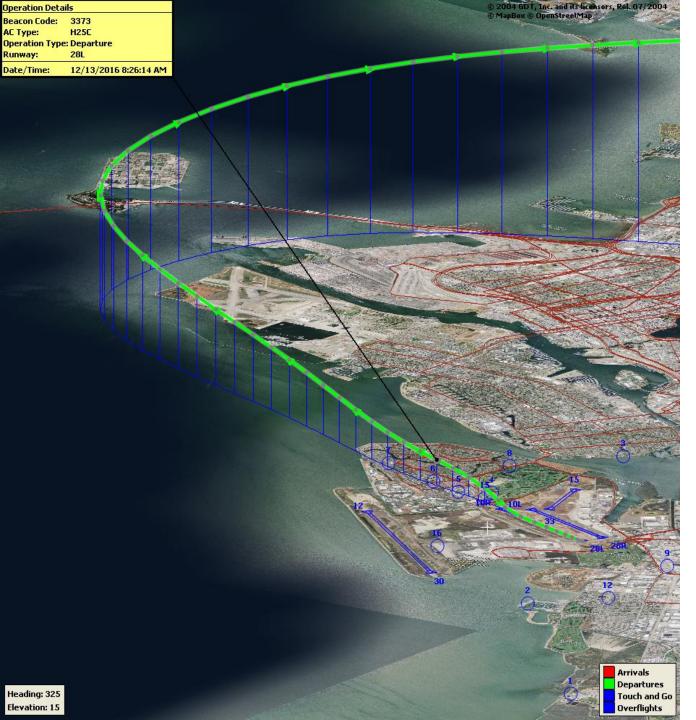
#### NOISE ABATEMENT REPORT

**H**ILLING

100.00

FOURTH QUARTER 2021

Compliance Monitoring Quarter Fourth Quarte	•	ry Compa	rison		
	2020	)Q4	2021Q4		
	Compl.	N/C	Compl.	N/C	
Runway 28R/L Jet Departure Compliance	94%	6%	95%	5%	
Total Airport-wide Corporate Jet Departures	2,083	132	2,948	168	
Runway 10R/L Jet Landing Compliance	84%	16%	89%	11%	
Total Southeast Plan Corporate Jet Landings	46	9	281	33	
North Field VFR Departure Compliance	92%	8%	85%	15%	
Total Runways 28R/L & 33 Departures	278	24	169	31	
North Field Quiet Hours Compliance	76%	24%	79%	21%	
Total North Field Quiet Hours Departures	102	32	141	37	
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%	
Total Runway 30 Turbojet Departures	11,926	1	14,379	9	
Night Time Departure Compliance	99%	1%	99%	1%	
Total Runway 30 Night Turbojet Departures	2,154	17	2,381	24	
Runway 12 Night Departure Compliance	98%	2%	99%	1%	
Total Runway 12 Night Turbojet Departures	55	1	313	4	
Runway 30 East Turn Departure Compliance	100%	0%	100%	0%	
Total Runway 30 East Turn Departures	4,009	4	3,948	5	
100 Degree Radial Turbojet Landing Compliance	99%	1%	99%	1%	
Total 100 Degree Radial Turbojet Landings	805	10	739	4	
Engine Runup Program Compliance	100%	0%	100%	0%	
Total Evening and Nighttime Engine Runups	6	0	6	0	
Note: N/C means non-compliant. Percentage	alues are r	ounded out			



Runway 28R/L Jet Departure NAP

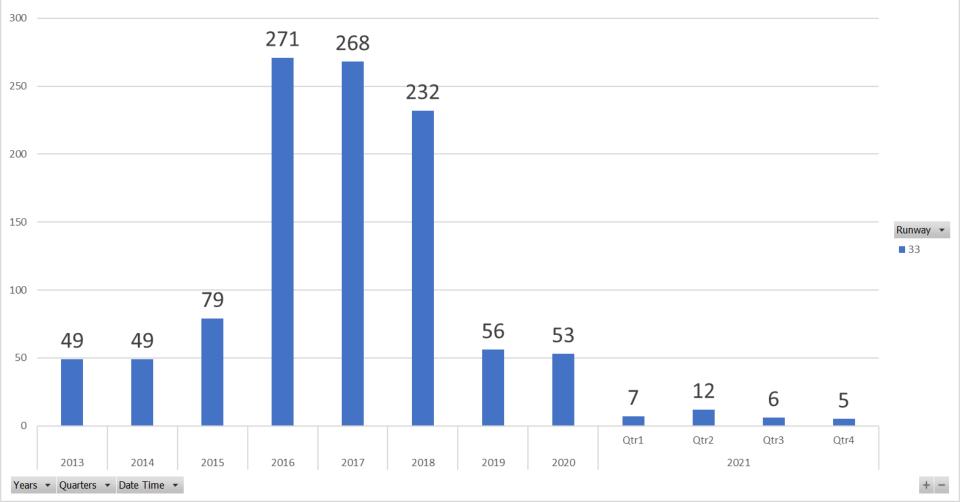
2021Q4 95% Compliance (3,116 total departures) (168 non-compliant)

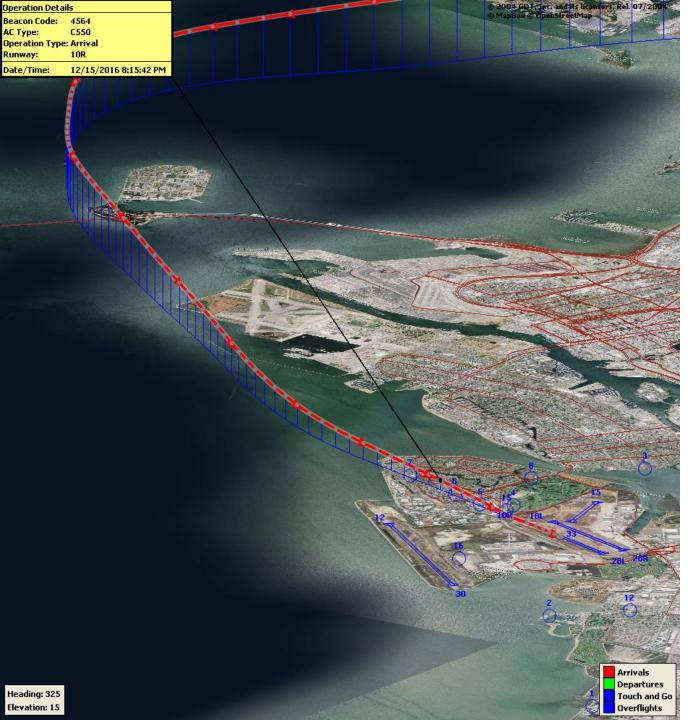
2020Q4 94% Compliance (2,215 total departures) (132 non-compliant)

### RUNWAY 33 JET DEPARTURES Fourth Quarter 2021

Count of Aircraft Type

#### **Runway 33 Jet Departure Trend Analysis**

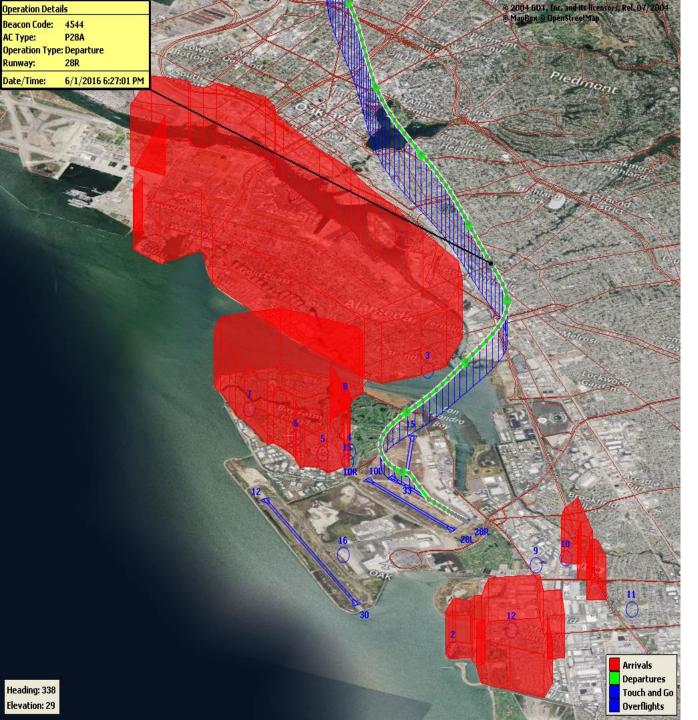




#### Runway 10R/L Jet Landing NAP

2021Q4 89% Compliance (314 total landings) (33 non-compliant)

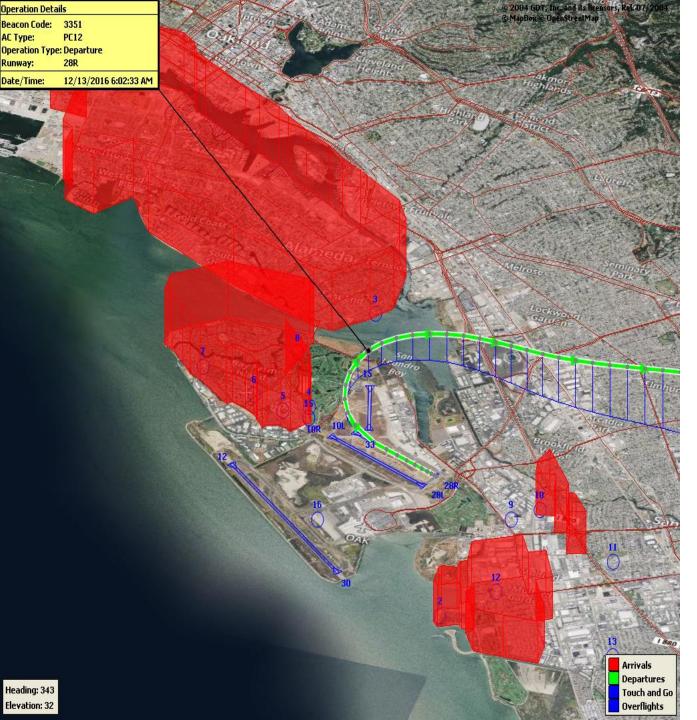
2020Q4 84% Compliance (55 total landings) (9 non-compliant)



VFR Aircraft Departure NAP

2021Q4 85% Compliance (200 total departures) (31 non-compliant)

2020Q4 92% Compliance (302 total departures) (24 non-compliant)

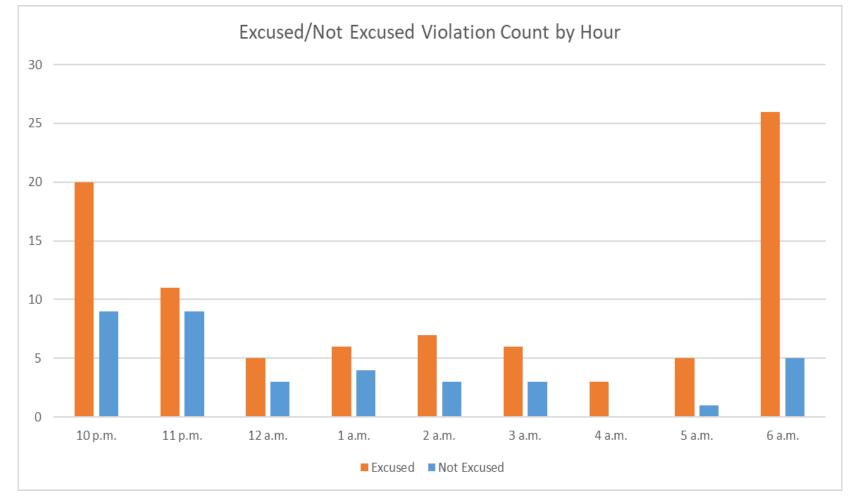


North Field Quiet Hours NAP

2021Q4 79% Compliance (178 total departures) (37 non-compliant)

2020Q4 76% Compliance (134 total departures) (32 non-compliant)

# North Field Quiet Hours NAP Non-Compliant by Hour





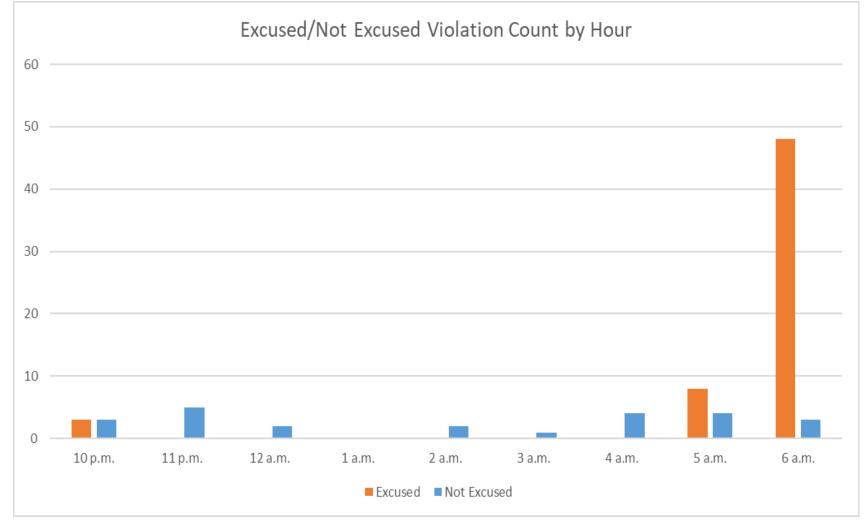
Night Time Departure NAP

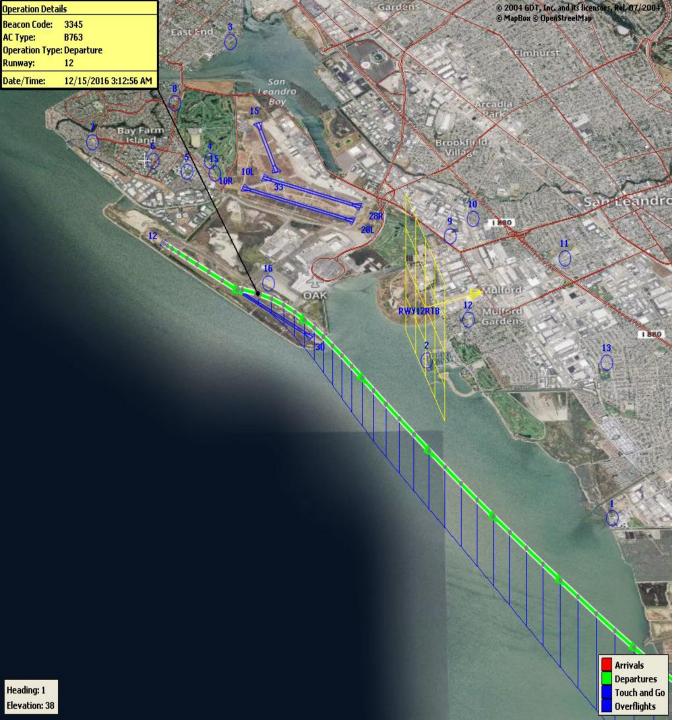
2021Q4 99% Compliance (2,405 total departures) (24 non-compliant)

\*REBAS Gate non-compliant = 24

2020Q4 99% Compliance (2,171 total departures) (17 non-compliant)

## Night Time NAP Non-Compliant Count by Hour



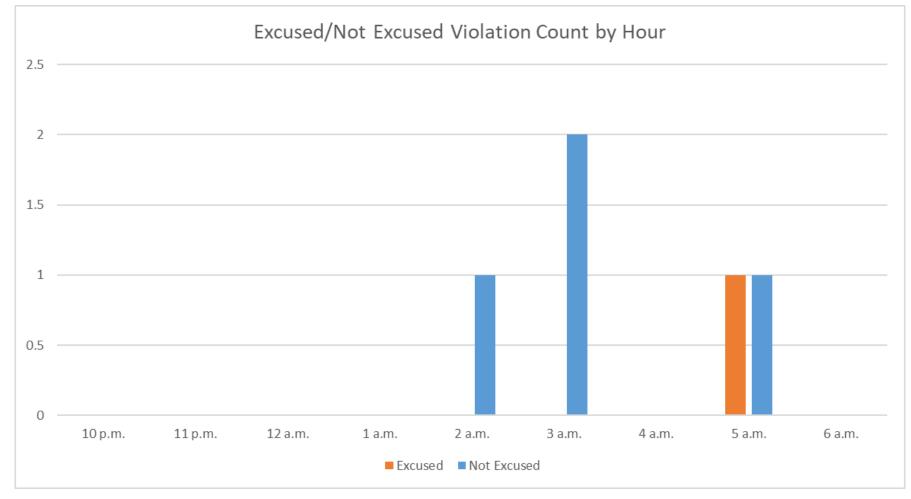


Runway 12 Night Departure NAP

2021Q4 99% Compliance (317 total departures) (4 non-compliant)

2020Q4 98% Compliance (56 total departures) (1 non-compliant)

# Runway 12 Night Departure Non-Compliant Count by Hour





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> Arrivals Departures

Touch and Go

Overflights

Runway 30 Bay Farm Right Turn NAP

2021Q4 100% Compliance (14,388 total departures) (9 non-compliant)

2020Q4 100% Compliance (11,927 total departures) (1 non-compliant)

Heading: 299 Elevation: 36



Runway 30 East Turn NAP

2021Q4 100% Compliance (3,953 total departures) (5 non-compliant)

\*Excused Departures = 30

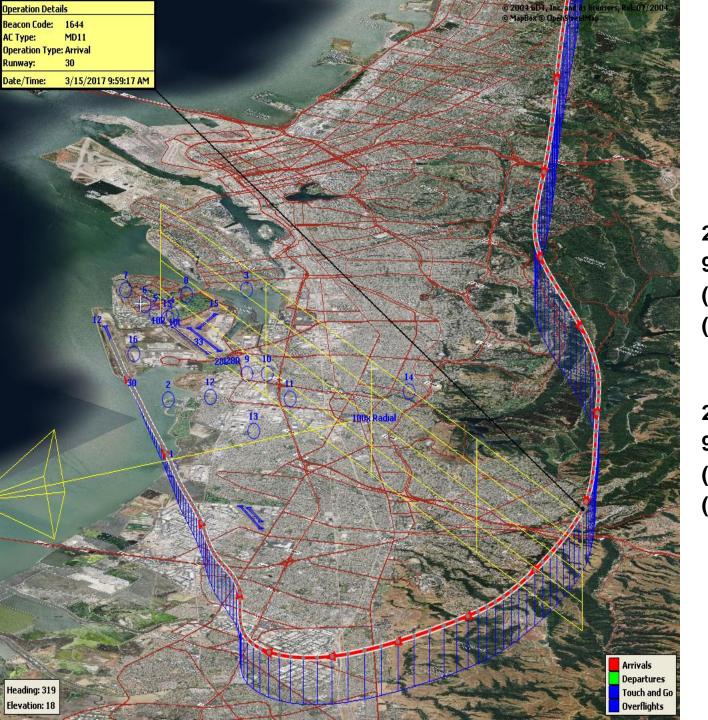
Arrivals Departures

Touch and Go

Overflights

2020Q4 100% Compliance (4,013 total departures) (4 non-compliant)

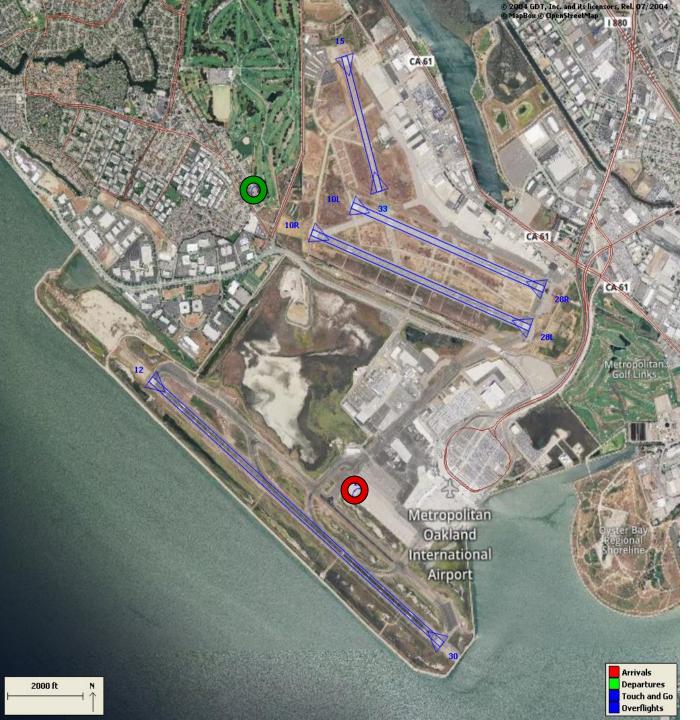
Heading: 328 Elevation: 21



100 Degree Radial At 3,000 ft. NAP

2021Q4 99% Compliance (743 total landings) (4 non-compliant)

2020Q4 99% Compliance (815 total landings) (10 non-compliant)



#### Engine Run-up NAP

2021Q4 100% Compliance (6 engine run-ups)\* (0 non-compliant)

2020Q4 100% Compliance (6 engine run-ups) (0 non-compliant)

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

Compliance Monitoring Quarterly Summary Comparison Fourth Quarter 2021 - Quarter-to-Quarter							
	202 <sup>-</sup>	1Q3	2021Q4				
	Compl.	N/C	Compl.	N/C			
Runway 28R/L Jet Departure Compliance	96%	4%	95%	5%			
Total Airport-wide Corporate Jet Departures	2,596	119	2,948	168			
Runway 10R/L Jet Landing Compliance	N/A	N/A	89%	11%			
Total Southeast Plan Corporate Jet Landings	0	0	281	33			
North Field VFR Departure Compliance	87%	13%	85%	15%			
Total Runways 28R/L & 33 Departures	180	27	169	31			
North Field Quiet Hours Compliance	90%	10%	79%	21%			
Total North Field Quiet Hours Departures	222	24	141	37			
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%			
Total Runway 30 Turbojet Departures	15,360	4	14,379	9			
Night Time Departure Compliance	100%	0%	99%	1%			
Total Runway 30 Night Turbojet Departures	2,846	14	2,381	24			
Runway 12 Night Departure Compliance	93%	7%	99%	1%			
Total Runway 12 Night Turbojet Departures	26	2	313	4			
Runway 30 East Turn Departure Compliance	100%	0%	100%	0%			
Total Runway 30 East Turn Departures	4,646	15	3,948	5			
100 Degree Radial Turbojet Landing Compliance	98%	2%	99%	1%			
Total 100 Degree Radial Turbojet Landings	698	11	739	4			
Engine Runup Program Compliance	100%	0%	100%	0%			
Total Evening and Nighttime Engine Runups	6	0	6	0			
Note: NC means non-compliant. Percentage va	lues are rou	unded out.					

	Table 1. North Field Night Aircraft Departure SEL Noise Measurements Total Aircraft Departures = 178										
	Fourth Quarter 2021 (10:00 p.m. to 7:00 a.m.)										
NMT	Aircraft Noise	A	ircraft Nois SEL 80 - 84		A	ircraft Noise SEL 85 - 89		A	ircraft Nois SEL≥90		Total Aircraft
Number	Events Below SEL 80 dBA	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Noise Events
1	1	0	0.0	0.0%	1	0.0	0.2%	0	0.0	0.0%	2
2	9	1	0.0	0.2%	2	0.0	0.4%	0	0.0	0.0%	12
3	19	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	21
4	43	48	0.5	8.5%	29	0.3	5.1%	28	0.3	4.9%	148
5	44	16	0.2	2.8%	35	0.4	6.2%	37	0.4	6.5%	132
6	11	20	0.2	3.5%	33	0.4	5.8%	26	0.3	4.6%	90
7	18	33	0.4	5.8%	24	0.3	4.2%	7	0.1	1.2%	82
8	27	24	0.3	4.2%	2	0.0	0.4%	1	0.0	0.2%	54
9	4	16	0.2	2.8%	15	0.2	2.6%	5	0.1	0.9%	40
10	47	12	0.1	2.1%	5	0.1	0.9%	1	0.0	0.2%	65
11	5	3	0.0	0.5%	1	0.0	0.2%	1	0.0	0.2%	10
12	20	6	0.1	1.1%	1	0.0	0.2%	2	0.0	0.4%	29
13	13	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	14
14	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
AllNMTs	261	182	2	0	148	2	0	108	1	0	699

	Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 138										
	Fourth Quarter 2021 (10:00 p.m. to 7:00 a.m.)										
NMT	Aircraft Noise Events Below	A	ircraft Nois SEL 80 - 84		Α	Aircraft Noise Events SEL 85 - 89.9 dBA		Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft
Number	SEL 80 dBA	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Noise Events
3	19	2	0.0	0.8%	0	0.0	0.0%	0	0.0	0.0%	21
4	43	48	0.5	20.1%	29	0.3	12.1%	28	0.3	11.7%	148
5	44	16	0.2	6.7%	35	0.4	14.6%	37	0.4	15.5%	132
6	11	20	0.2	8.4%	33	0.4	13.8%	26	0.3	10.9%	90
7	18	33	0.4	13.8%	24	0.3	10.0%	7	0.1	2.9%	82
8	27	24	0.3	10.0%	2	0.0	0.8%	1	0.0	0.4%	54
Total	162	143	1.6		123	1.4		99	1.1		527

 Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 40

	Fourth Quarter 2021 (10:00 p.m. to 7:00 a.m.)										
NMT	NMT         Aircraft Noise         Aircraft Noise           SEL 80 - 84.9 dBA		Aircraft Noise Events SEL 85 - 89.9 dBA		Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft			
Number	Events Below SEL 80 dBA	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Noise Events
2	9	1	0.0	0.3%	2	0.0	0.6%	0	0.0	0.0%	12
9	4	16	0.2	4.9%	15	0.2	4.6%	5	0.1	1.5%	40
10	47	12	0.1	3.7%	5	0.1	1.5%	1	0.0	0.3%	65
11	5	3	0.0	0.9%	1	0.0	0.3%	1	0.0	0.3%	10
12	20	6	0.1	1.8%	1	0.0	0.3%	2	0.0	0.6%	29
13	13	1	0.0	0.3%	0	0.0	0.0%	0	0.0	0.0%	14
14	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
Total	98	39	0.4		24	0.3		9	0.1		170

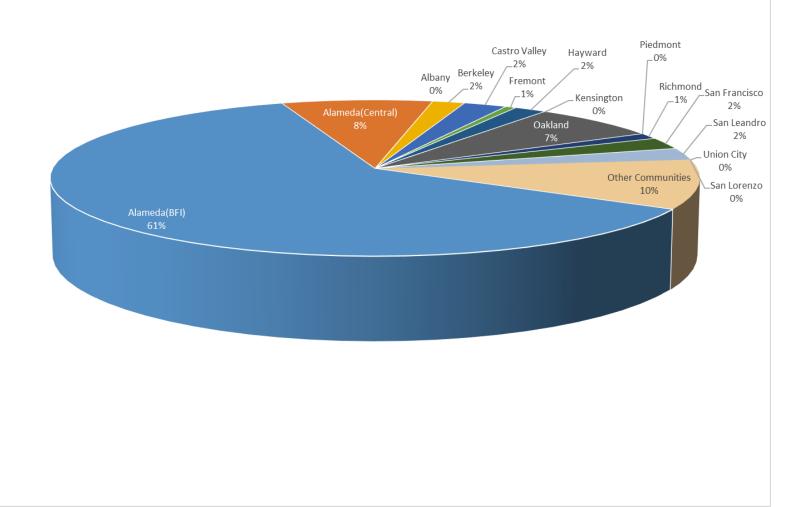
	Airc Depar		Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duratio (seconds)
		Basel	line (November 200	2) [A]		
DC10/MD10		87	32	69	78	22
MD11		32	13	70	79	24
A306		67	21	67	77	2
		Fc	ourth Quarter 2021	[B]		
	Total [X]	Est. Avg. Monthly [X/3]				
B763	219	73	37	66	74	1.
DC10/MD10	44	15	9	67	76	1
MD11	212	71	69	67	76	1
A306	18	6	3	67	75	1
B757	144	48	22	67	75	1:
B77L	113	38	10	65	74	1
			Difference [A-B]			
DC10/MD10		-72	-23	-2	-2	-:
MD11		39	56	-3	-3	-
A306		-61	-18	0	-2	-1:

	Airc Depar		Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duratio (seconds)		
Baseline (November 2002) [A]								
DC10/MD10		87	32	69	78	22		
MD11		32	13	70	79	24		
A306		67	21	67	77	25		
Fourth Quarter 2020 [B]								
	Total [X]	Est. Avg. Monthly [X/3]						
B763	173	58	83	65	75	18		
DC10/MD10	52	17	40	68	77	2:		
MD11	202	67	184	67	77	2		
A306	76	25	42	65	74	1		
B757	168	56	88	65	74	1:		
B77L	127	42	35	65	74	1.		
			Difference [A-B]			-		
DC10/MD10		-70	8	-1	-1			
MD11		35	171	-3	-2	-:		
A306		-42	21	-2	-3	-8		

Oakland International Airport Noise Complaint Summary October 2021								
Community Callers Complaints								
Alameda(BFI)	102	4158						
Alameda(Central)	14	118						
Albany	0	0						
Berkeley	3	24						
Castro Valley	4	78						
Fremont	1	229						
Hayw ard	3	5						
Kensington	0	0						
Oakland	12	2717						
Piedmont	0	0						
Richmond	2	51						
San Francisco	4	4						
San Leandro	4	28						
Union City	0	0						
San Lorenzo	0	0						
Other Communities	17	593						
Total	166	8005						
Complaints by Type								
Website		0						
E-mail	3	314						
Phone	0							
View point App	4	691						
Complai	nts by Time of Day							
Day ( 0700 - 1900 )	3	416						
Evening ( 1900 - 2200 )	1	414						
Night ( 2200 - 0700 )	3	175						
Complaints	by Type of Operation							
Arrivals	3	641						
Departures	4	103						
Over-flights		51						
Touch & Go	2	210						
Not Linked to an Operation		0						
Complaint	s by Type of Aircraft							
Business Jet	-	786						
Helicopter	45							
Jet	6	266						
Military		0						
Not Reported (not linked to an aircraft)		0						
Other (Type information not available)		13						
Propeller		475						
Turbo-prop		420						

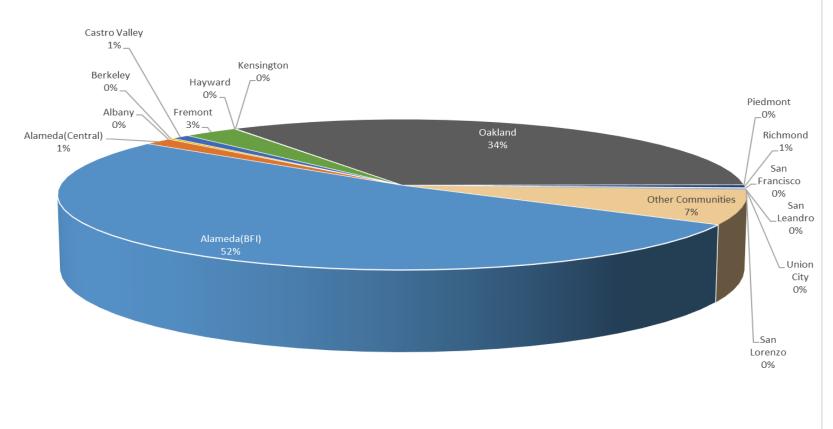
### Number of Callers October 2021

#### **Noise Complaints Summary by Number of Callers**



### Number of Complaints October 2021

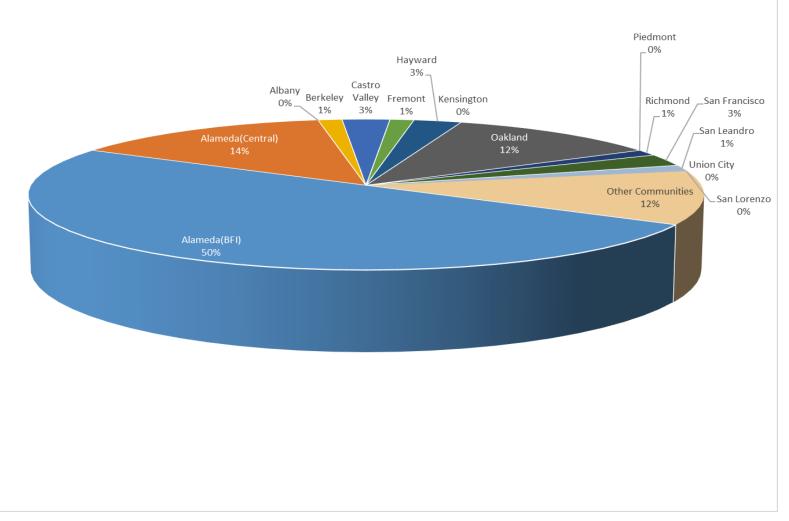
#### **Noise Complaints Summary by Number of Complaints**



Oakland International Airport Noise Complaint Summary November 2021								
Community	Callers	Complaints						
Alameda(BFI)	39	2934						
Alameda(Central)	11	33						
Albany	0	0						
Berkeley	1	1						
Castro Valley	2	59						
Fremont	1	119						
Hayw ard	2	2						
Kensington	0	0						
Oakland	9	2510						
Piedmont	0	0						
Richmond	1	83						
San Francisco	2	3						
San Leandro	1	1						
Union City	0	0						
San Lorenzo	0	0						
Other Communities	9	323						
Total	78	6068						
Complaints by Type								
Website		0						
E-mail	2	2868						
Phone		0						
View point App	3	3200						
Comp	laints by Time of Day							
Day(0700 - 1900)	2	2459						
Evening ( 1900 - 2200 )		927						
Night(2200 - 0700)	2	2682						
Complair	nts by Type of Operation							
Arrivals	2	2738						
Departures	3	3169						
Over-flights		42						
Touch & Go		119						
Not Linked to an Operation		0						
Compla	ints by Type of Aircraft							
Business Jet								
Helicopter	25							
Jet	5	5252						
Military		0						
Not Reported (not linked to an aircraft)		0						
Other (Type information not available)		11						
Propeller		270						
Turbo-prop		81						

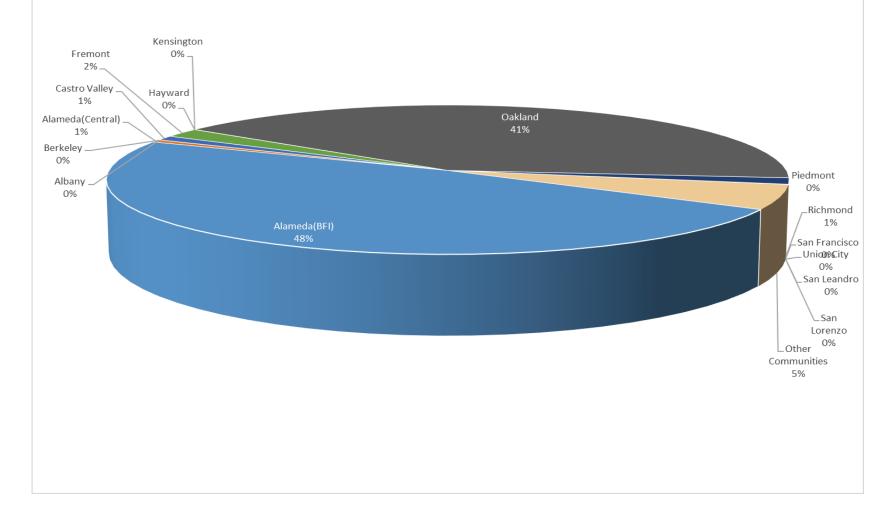
### Number of Callers November 2021

#### **Noise Complaints Summary by Number of Callers**



### Number of Complaints November 2021

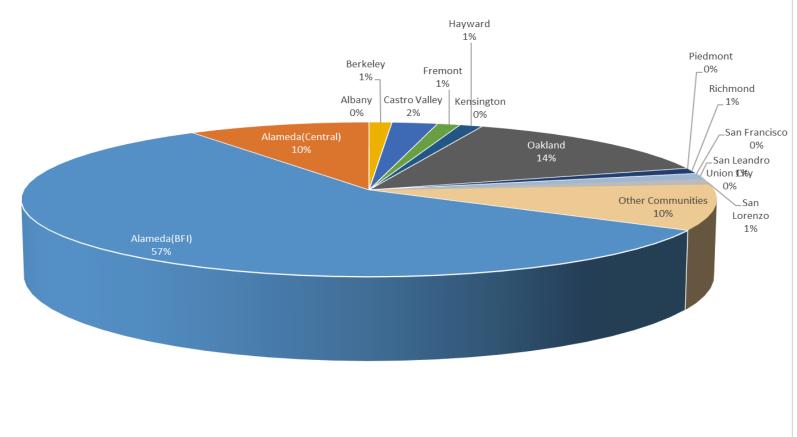




Oakland International Airport Noise Complaint Summary December 2021									
Community Callers Complaints									
Alameda(BFI)	48	2862							
Alameda(Central)	8	51							
Albany	0	0							
Berkeley	1	1							
Castro Valley	2	21							
Fremont	1	142							
Hayward	1	1							
Kensington	0	0							
Oakland	12	2638							
Piedmont	0	0							
Richmond	1	174							
San Francisco	0	0							
San Leandro	1	32							
Union City	0	0							
San Lorenzo	1	2							
Other Communities	8	409							
Total	84	6333							
Complaints by Type									
Website		0							
E-mail	3	3116							
Phone	2								
View point App		3215							
Comp	laints by Time of Day								
Day(0700 - 1900)	2	2721							
Evening ( 1900 - 2200 )	1	400							
Night(2200 - 0700)		2212							
Complair	nts by Type of Operation								
Arrivals	2	2554							
Departures	3	3559							
Over-flights		116							
Touch & Go		104							
Not Linked to an Operation		0							
Compla	ints by Type of Aircraft								
Business Jet		382							
Helicopter	117								
Jet	5	5168							
Military		0							
Not Reported (not linked to an aircraft)		0							
Other (Type information not available)		4							
Propeller		203							
Turbo-prop		459							

### Number of Callers December 2021

#### **Noise Complaints Summary by Number of Callers**



### Number of Complaints December 2021

