NOISE FORUM SUMMARY

North/South Field Working Groups

61-10 A

ALC: NO.

NOISE ABATEMENT REPORT

1 IF N

FIRST QUARTER 2022

Disclaimer

The Port of Oakland's Airport Noise and Operations Monitoring System (ANOMS) is the source of the data used in this report. Although ANOMS is a very sophisticated computer program that provides a state-of-the-art solution for collecting aircraft noise complaints. The number of aircraft noise complaints in the report are for informational purposes. Airport staff carefully reviews the data for accuracy and will make corrections whenever possible.

Compliance Monitoring Quarterly Summary Comparison First Quarter 2022							
	202	1Q1	2022Q1				
	Compl.	N/C	Compl.	N/C			
Runway 28R/L Jet Departure Compliance	95%	5%	93%	7%			
Total Airport-wide Corporate Jet Departures	2,209	113	2,454	175			
Runway 10R/L Jet Landing Compliance	78%	22%	85%	15%			
Total Southeast Plan Corporate Jet Landings	147	42	92	16			
North Field VFR Departure Compliance	93%	7%	91%	9%			
Total Runways 28R/L & 33 Departures	265	21	224	21			
North Field Quiet Hours Compliance	76%	24%	76%	24%			
Total North Field Quiet Hours Departures	105	34	103	33			
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%			
Total Runway 30 Turbojet Departures	10,822	7	15,423	7			
Night Time Departure Compliance	99%	1%	100%	0%			
Total Runway 30 Night Turbojet Departures	2,024	19	2,431	12			
Runway 12 Night Departure Compliance	100%	0%	100%	0%			
Total Runway 12 Night Turbojet Departures	120	0	55	0			
Runway 30 East Turn Departure Compliance	100%	0%	100%	0%			
Total Runway 30 East Turn Departures	3,487	5	3,757	0			
100 Degree Radial Turbojet Landing Compliance	98%	2%	99%	0%			
Total 100 Degree Radial Turbojet Landings	640	14	817	6			
Engine Runup Program Compliance	100%	0%	100%	0%			
Total Evening and Nighttime Engine Runups	11	0	5	0			
Note: N/C means non-compliant. Percentage	/alues are r	ounded out	t.				



Runway 28R/L Jet Departure NAP

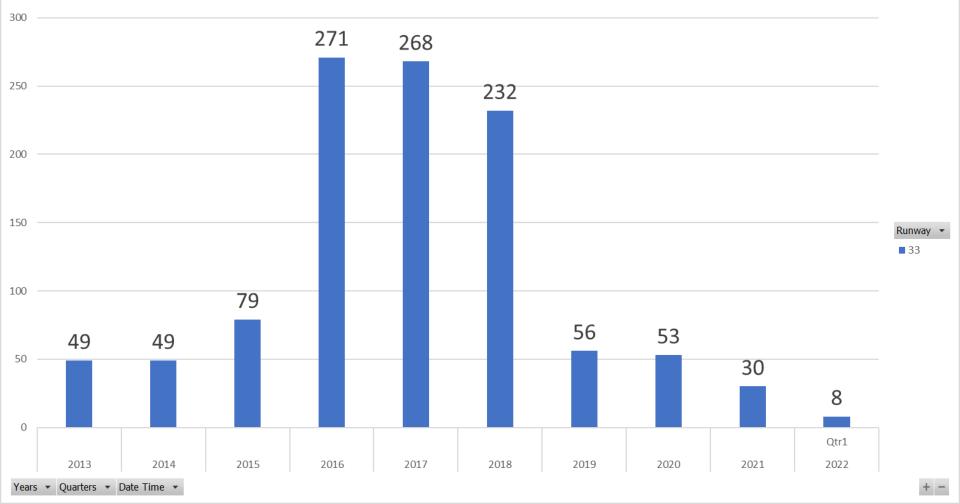
2022Q1 93% Compliance (2,629 total departures) (175 non-compliant)

2021Q1 95% Compliance (2,322 total departures) (113 non-compliant)

RUNWAY 33 JET DEPARTURES FIRST Quarter 2022

Count of Aircraft Type

Runway 33 Jet Departure Trend Analysis

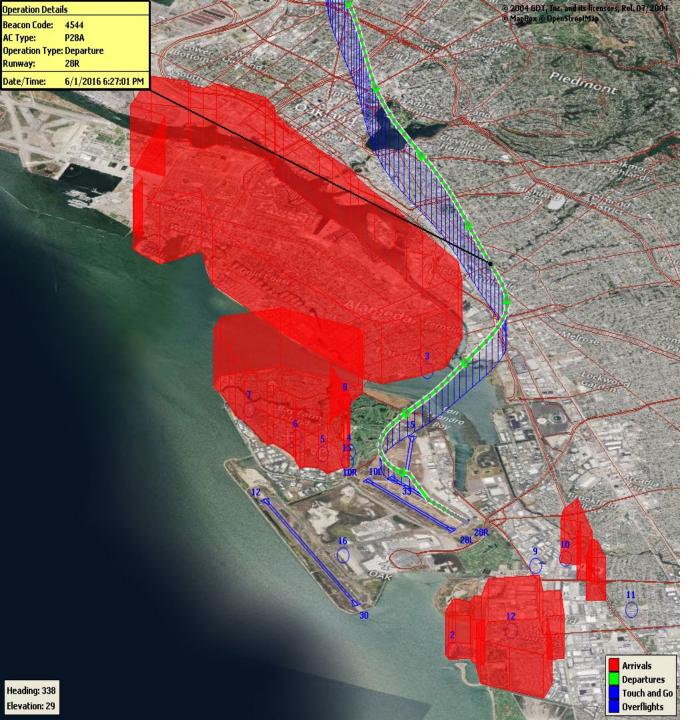




Runway 10R/L Jet Landing NAP

2022Q1 85% Compliance (108 total landings) (16 non-compliant)

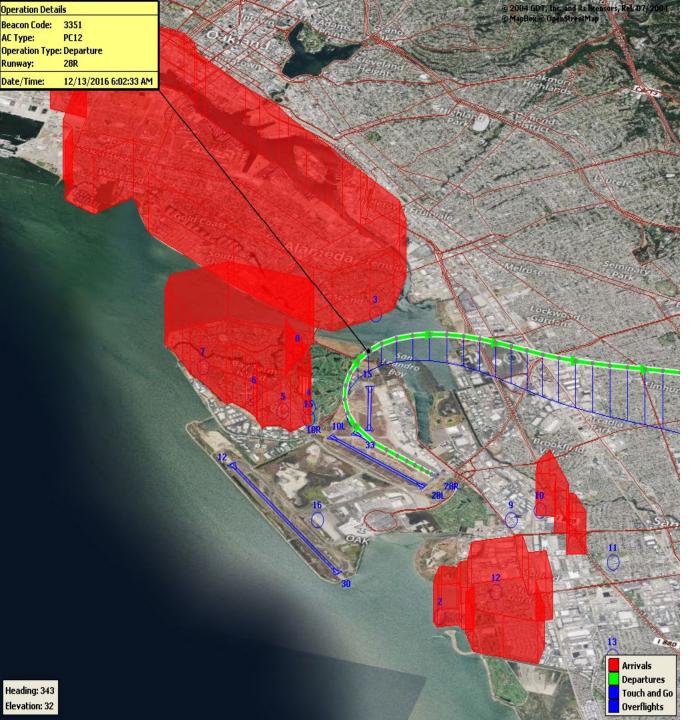
2021Q1 78% Compliance (189 total landings) (42 non-compliant)



VFR Aircraft Departure NAP

2022Q1 91% Compliance (245 total departures) (21 non-compliant)

2021Q1 93% Compliance (286 total departures) (21 non-compliant)

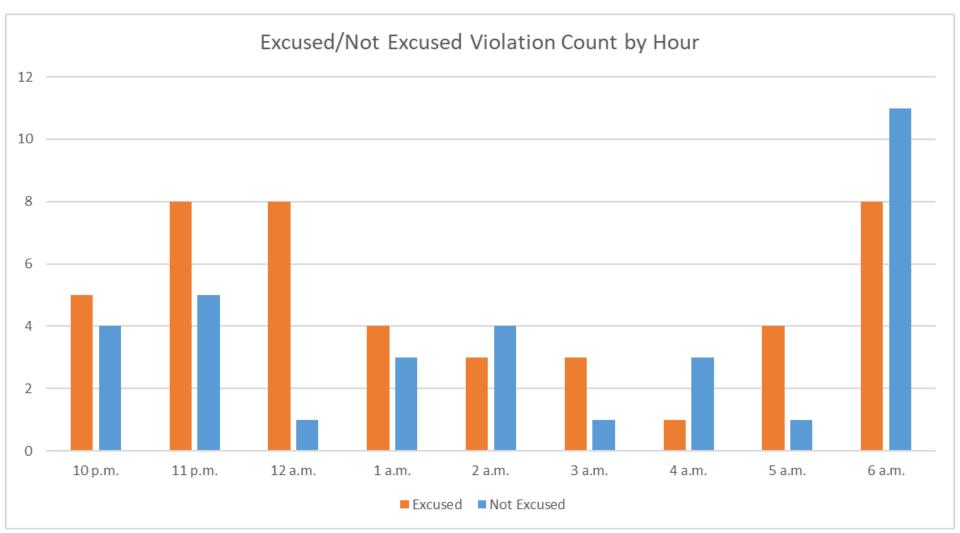


North Field Quiet Hours NAP

2022Q1 76% Compliance (136 total departures) (33 non-compliant)

2021Q1 76% Compliance (139 total departures) (34 non-compliant)

North Field Quiet Hours NAP Non-Compliant by Hour





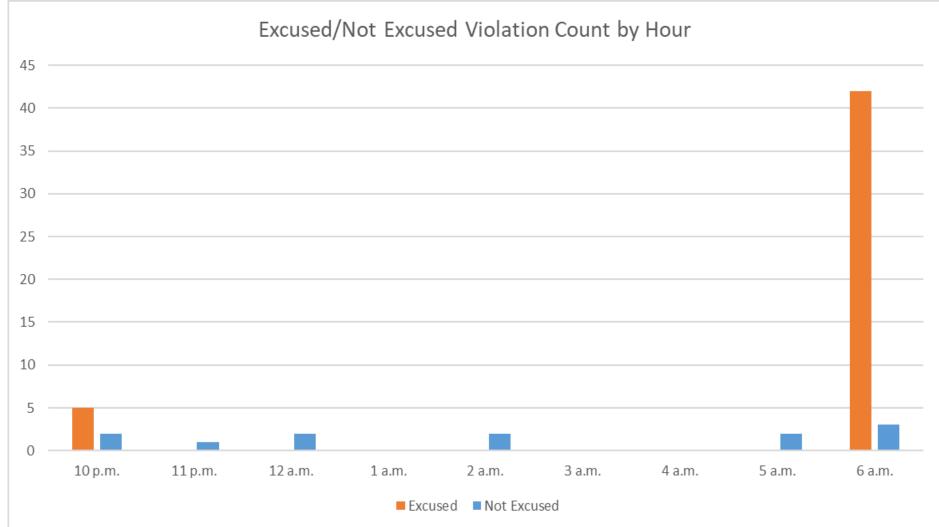
Night Time Departure NAP

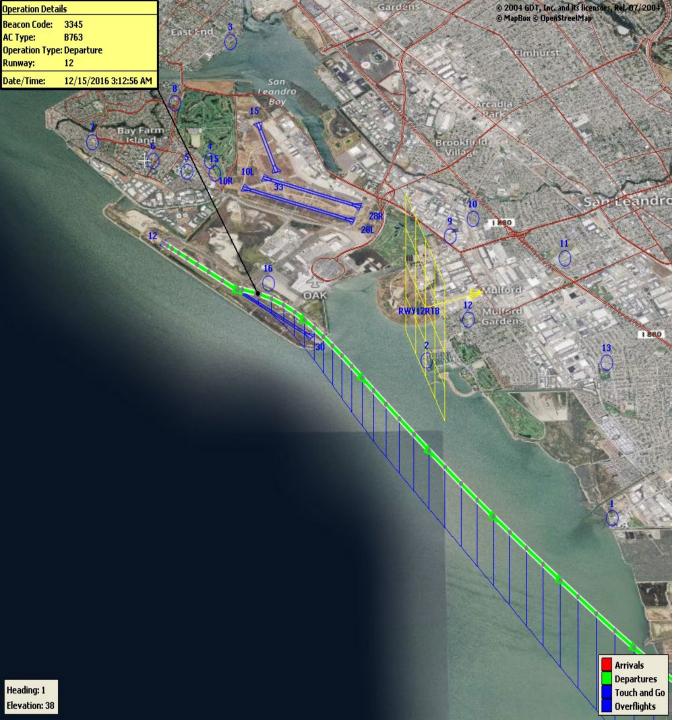
2022Q1 100% Compliance (2,443 total departures) (12 non-compliant)

*REBAS Gate non-compliant = 11

2021Q1 99% Compliance (2,043 total departures) (19 non-compliant)

Night Time NAP Non-Compliant Count by Hour



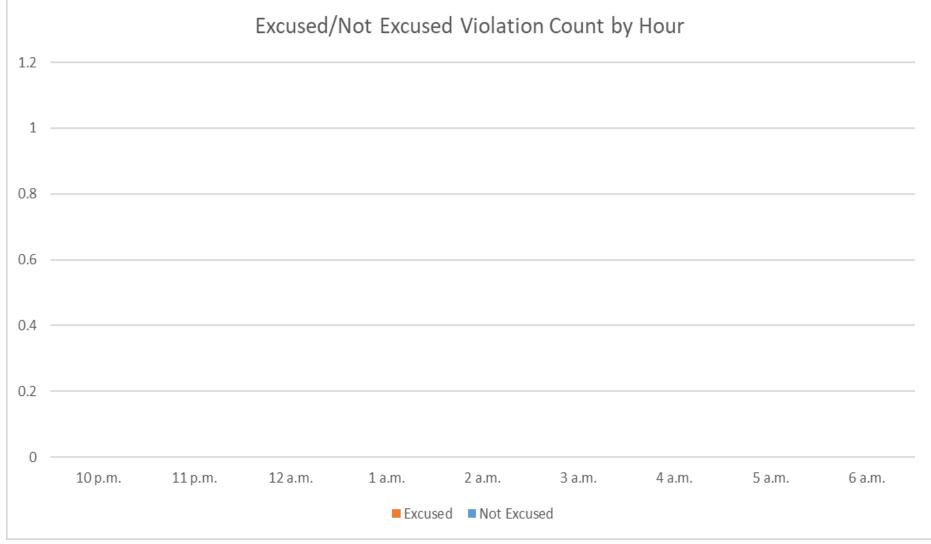


Runway 12 Night Departure NAP

2022Q1 100% Compliance (55 total departures) (0 non-compliant)

2021Q1 100% Compliance (120 total departures) (0 non-compliant)

Runway 12 Night Departure Non-Compliant Count by Hour



Operation Details							
Beacon Code:	3374						
AC Type:	B737						
Operation Type: Departure							
Runway:	30						
Date/Time:	1/7/2019 8:57:05 AM						

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> Arrivals Departures

Touch and Go

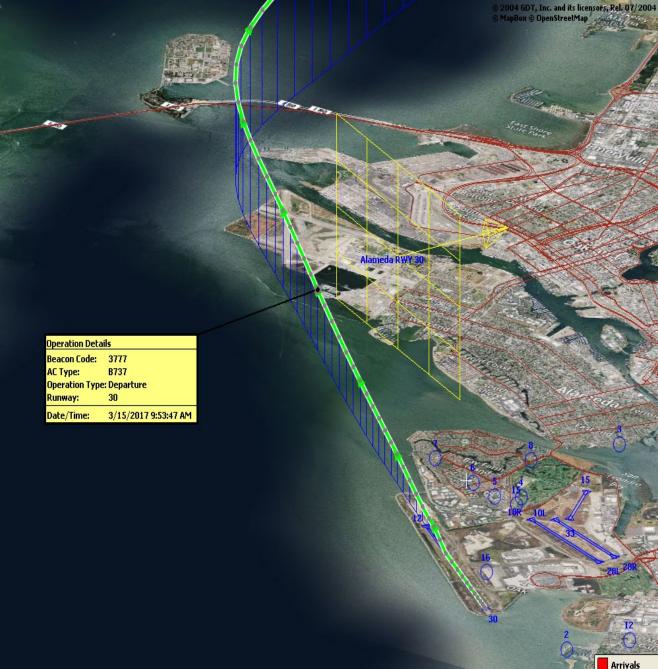
Overflights

Runway 30 Bay Farm Right Turn NAP

2022Q1 100% Compliance (15,430 total departures) (7 non-compliant)

2021Q1 100% Compliance (10,829 total departures) (7 non-compliant)

Heading: 299 Elevation: 36



Runway 30 East Turn NAP

2022Q1 100% Compliance (3,757 total departures) (0 non-compliant)

*Excused Departures = 3

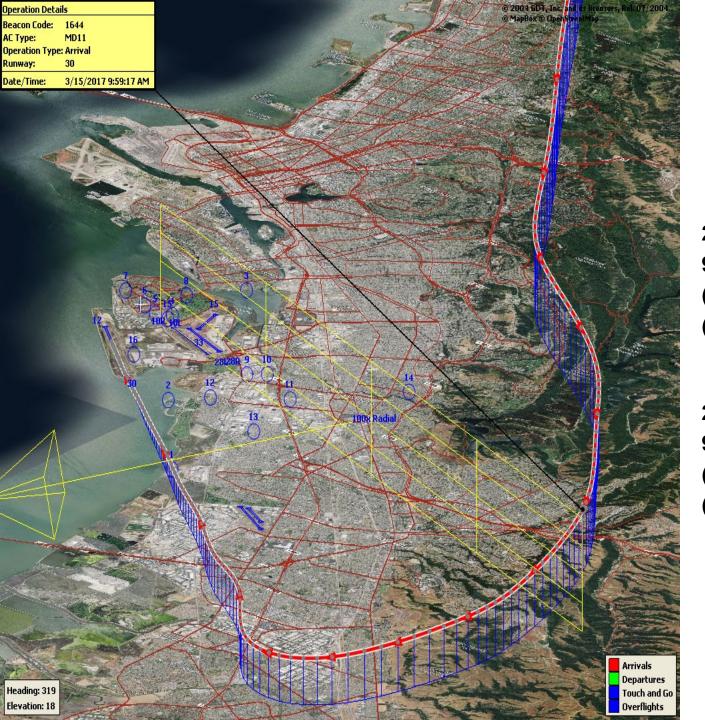
Departures

Overflights

Touch and Go

2021Q1 100% Compliance (3,492 total departures) (5 non-compliant)

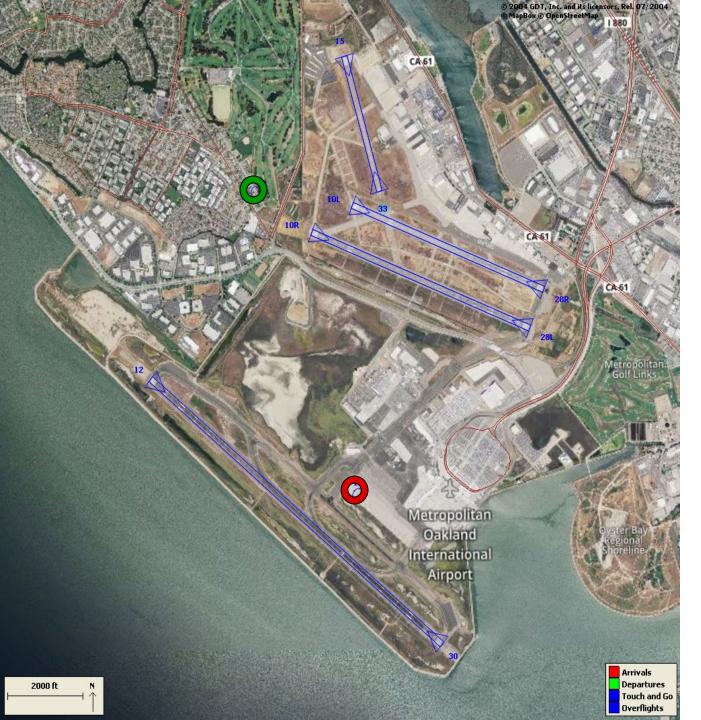




100 Degree Radial At 3,000 ft. NAP

2022Q1 99% Compliance (823 total landings) (6 non-compliant)

2021Q1 98% Compliance (654 total landings) (14 non-compliant)



Engine Run-up NAP

2022Q1 100% Compliance (5 engine run-ups)* (0 non-compliant)

2021Q1 100% Compliance (11 engine run-ups) (0 non-compliant)

*Only above idle-power run-ups recorded.

Compliance Monitoring Quarterly Summary Comparison FIRST Quarter 2022 - Quarter-to-Quarter						
	202	1Q4	202	2Q1		
	Compl.	N/C	Compl.	N/C		
Runway 28R/L Jet Departure Compliance	95%	5%	93%	7%		
Total Airport-wide Corporate Jet Departures	2,948	168	2,454	175		
Runway 10R/L Jet Landing Compliance	89%	11%	85%	15%		
Total Southeast Plan Corporate Jet Landings	281	33	92	16		
North Field VFR Departure Compliance	85%	15%	91%	9%		
Total Runways 28R/L & 33 Departures	169	31	224	21		
North Field Quiet Hours Compliance	79%	21%	76%	24%		
Total North Field Quiet Hours Departures	141	37	103	33		
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%		
Total Runway 30 Turbojet Departures	14,379	9	15,423	7		
Night Time Departure Compliance	99%	1%	100%	0%		
Total Runway 30 Night Turbojet Departures	2,381	24	2,431	12		
Runway 12 Night Departure Compliance	99%	1%	100%	0%		
Total Runway 12 Night Turbojet Departures	313	4	55	0		
Runway 30 East Turn Departure Compliance	100%	0%	100%	0%		
Total Runway 30 East Turn Departures	3,948	5	3,757	0		
100 Degree Radial Turbojet Landing Compliance	99%	1%	99%	0%		
Total 100 Degree Radial Turbojet Landings	739	4	817	6		
Engine Runup Program Compliance	100%	0%	100%	0%		
Total Evening and Nighttime Engine Runups	6	0	5	0		
Note: NC means non-compliant. Percentage va	lues are ro	unded out.				

	Table 1. North Field Night Aircraft Departure SEL Noise Measurements Total Aircraft Departures = 136										
	First Quarter 2022 (10:00 p.m. to 7:00 a.m.)										
NMT	Aircraft Noise	А	ircraft Noise SEL 80 - 84		Α	ircraft Nois SEL 85 - 89		Α	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	0	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	1
2	16	4	0.0	0.7%	0	0.0	0.0%	0	0.0	0.0%	20
3	44	3	0.0	0.5%	1	0.0	0.2%	1	0.0	0.2%	49
4	33	38	0.4	6.7%	27	0.3	4.8%	9	0.1	1.6%	107
5	61	21	0.2	3.7%	14	0.2	2.5%	9	0.1	1.6%	105
6	53	10	0.1	1.8%	12	0.1	2.1%	7	0.1	1.2%	82
7	26	7	0.1	1.2%	6	0.1	1.1%	1	0.0	0.2%	40
8	29	21	0.2	3.7%	1	0.0	0.2%	0	0.0	0.0%	51
9	11	5	0.1	0.9%	4	0.0	0.7%	2	0.0	0.4%	22
10	49	9	0.1	1.6%	1	0.0	0.2%	1	0.0	0.2%	60
11	3	1	0.0	0.2%	1	0.0	0.2%	0	0.0	0.0%	5
12	8	5	0.1	0.9%	2	0.0	0.4%	0	0.0	0.0%	15
13	3	0	0.0	0.0%	1	0.0	0.2%	0	0.0	0.0%	4
14	24	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	25
All NMTs	360	126	1	0	70	1	0	30	0	0	586

First Quarter 2022 (10:00 p.m. to 7:00 a.m.)											
NMT	Aircraft Noise	Aircraft Noise Events SEL 80 - 84.9 dBA			·	ircraft Nois SEL 85 - 89	e Events	Α	e Events 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
3	44	3	0.0	1.3%	1	0.0	0.4%	1	0.0	0.4%	49
4	33	38	0.4	15.9%	27	0.3	11.3%	9	0.1	3.8%	107
5	61	21	0.2	8.8%	14	0.2	5.9%	9	0.1	3.8%	105
6	53	10	0.1	4.2%	12	0.1	5.0%	7	0.1	2.9%	82
7	26	7	0.1	2.9%	6	0.1	2.5%	1	0.0	0.4%	40
8	29	21	0.2	8.8%	1	0.0	0.4%	0	0.0	0.0%	51
Total	246	100	1.1		61	0.7		27	0.3		434

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 16

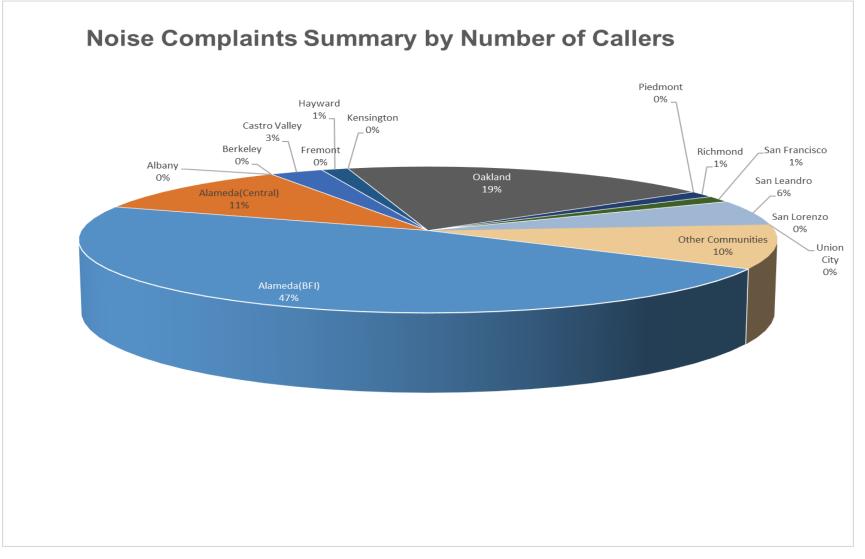
	First Quarter 2022 (10:00 p.m. to 7:00 a.m.)										
NMT	Aircraft Noise	Aircraft Noise Events SEL 80 - 84.9 dBA		Aircraft Noise Events SEL 85 - 89.9 dBA		Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft		
Number	Events Below SEL 80 dBA	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Noise Events
2	16	4	0.0	1.2%	0	0.0	0.0%	0	0.0	0.0%	20
9	11	5	0.1	1.5%	4	0.0	1.2%	2	0.0	0.6%	22
10	49	9	0.1	2.7%	1	0.0	0.3%	1	0.0	0.3%	60
11	3	1	0.0	0.3%	1	0.0	0.3%	0	0.0	0.0%	5
12	8	5	0.1	1.5%	2	0.0	0.6%	0	0.0	0.0%	15
13	3	0	0.0	0.0%	1	0.0	0.3%	0	0.0	0.0%	4
14	24	1	0.0	0.3%	0	0.0	0.0%	0	0.0	0.0%	25
Total	114	25	0.3		9	0.1		3	0.0		151

		Aircraft Departures		Lmax Average	SEL Average	Avg. Duration (seconds)			
Baseline (November 2002) [A]									
DC10/MD10		87	32	69	78	22			
MD11		32	13	70	79	24			
A306		67	21	67	77	25			
First Quarter 2022 [B]									
	Total [X]	Est. Avg. Monthly [X/3]							
B763	275	92	144	65	74	16			
DC10/MD10	27	9	30	67	76	19			
MD11	217	72	158	67	76	19			
A306	17	6	10	65	73	14			
B757	190	63	104	65	74	15			
B77L	117	39	35	65	73	12			
			Difference [A-B]						
DC10/MD10		-78	-2	-2	-2	-3			
MD11		40	145	-3	-3	-5			
A306		-61	-11	-2	-4	-11			

	Aircraft Departures		Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duratio (seconds)		
		Basel	ine (November 200	2) [A]				
DC10/MD10		87	32	69	78	22		
MD11		32	13	70	79	24		
A306		67	21	67	77	25		
First Quarter 2021 [B]								
	Total [X]	Est. Avg. Monthly [X/3]						
B763	163	54	64	66	75	1:		
DC10/MD10	44	15	35	66	75	1		
MD11	163	54	110	68	77	2:		
A306	109	36	45	65	75	1.		
B757	159	53	60	65	75	10		
B77L	115	38	28	65	74	1:		
			Difference [A-B]					
DC10/MD10		-72	3	-3	-3	-:		
MD11		22	97	-2	-2	-:		
A306		-31	24	-2	-2	-8		

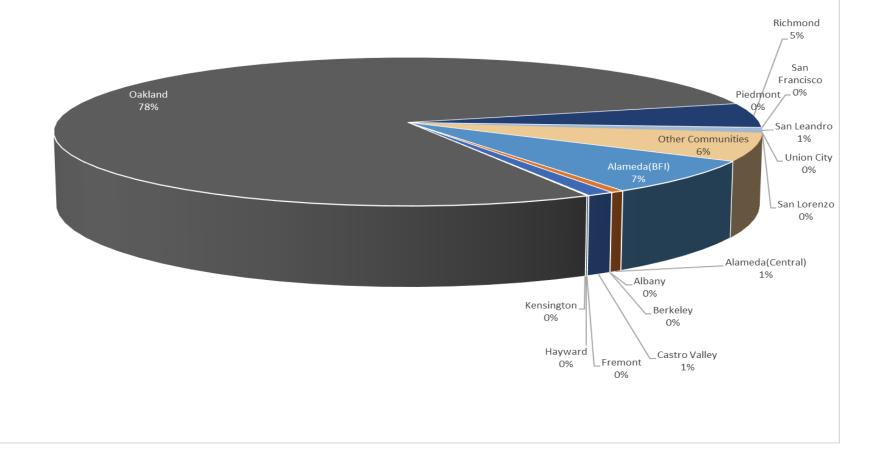
Oakland International Airport Noise Complaint Summary January 2022							
Community Callers Complaints							
Alameda(BFI)	34	257					
Alameda(Central)	8	19					
Albany	0	0					
Berkeley	0	0					
Castro Valley	2	38					
Fremont	0	0					
Hayward	1	3					
Kensington	0	0					
Oakland	14	2698					
Piedmont	0	0					
Richmond	1	185					
San Francisco	1	1					
San Leandro	4	36					
Union City 0 0							
San Lorenzo	0	0					
Other Communities	7	213					
Total	72	3450					
Complaints by Type							
Website 0							
E-mail	2721						
Phone	0						
View point App	729						
Compl	aints by Time of Day						
Day(0700 - 1900)		777					
Evening(1900 - 2200)		691					
Night (2200 - 0700)	1	982					
Complaint	ts by Type of Operation						
Arrivals	2	206					
Departures	1	152					
Over-flights 50							
Touch & Go		42					
Not Linked to an Operation 0							
Complai	nts by Type of Aircraft						
Business Jet 398							
Helicopter	15						
Jet	2	513					
Military		0					
Not Reported (not linked to an aircraft)		0					
Other (Type information not available)		4					
Propeller		141					
Turbo-prop	:	379					

Number of Callers January 2022



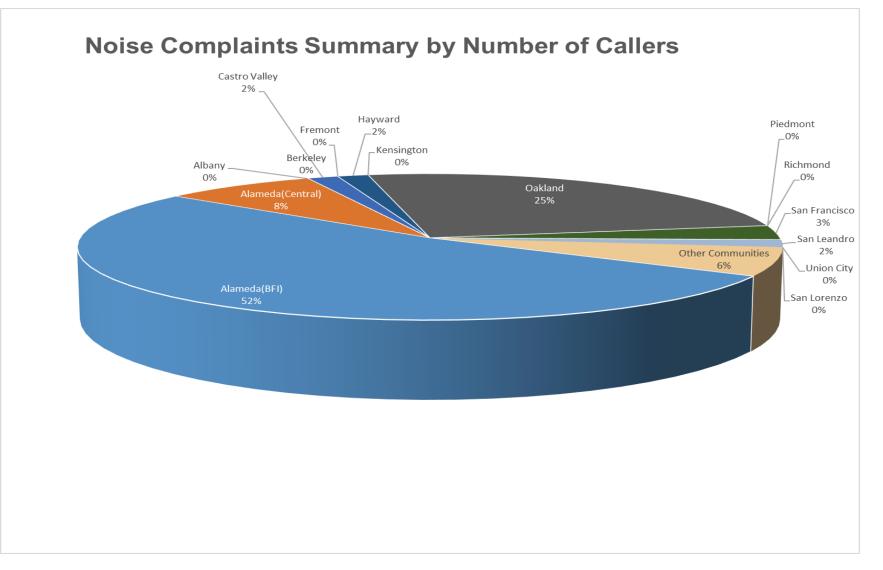
Number of Complaints January 2022

Noise Complaints Summary by Number of Complaints

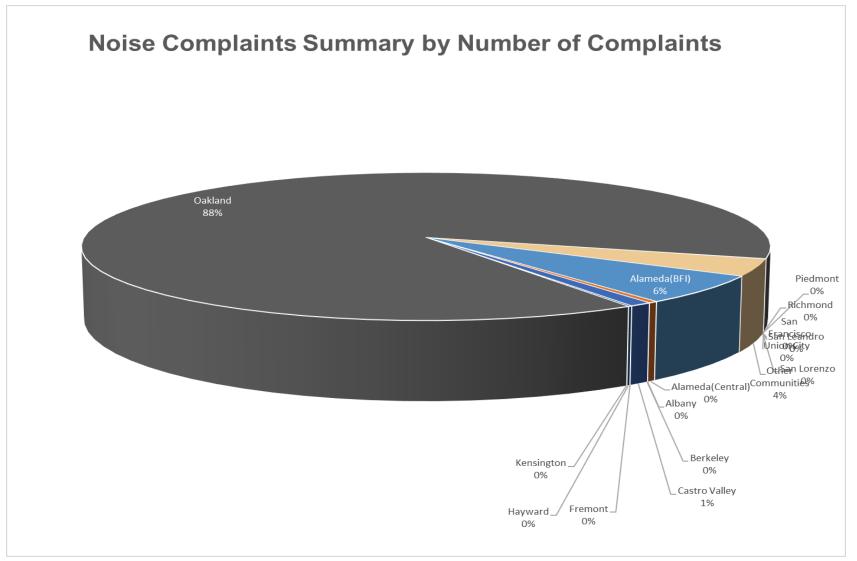


Oakland International Airport Noise Complaint Summary February 2022							
Community Callers Complaints							
Alameda(BFI)	33	192					
Alameda(Central)	5	12					
Albany	0	0					
Berkeley	0	0					
Castro Valley	1	29					
Fremont	0	0					
Hayward	1	5					
Kensington	0	0					
Oakland	16	2709					
Piedmont	0	0					
Richmond	0	0					
San Francisco	2	2					
San Leandro	1	1					
Jnion City 0 0							
San Lorenzo	0	0					
Other Communities	4	113					
Total	63	3063					
Complaints by Type							
Vebsite 0							
E-mail	2623						
Phone	0						
View point App	440						
Compla	aints by Time of Day						
Day(0700 - 1900)		724					
Evening(1900 - 2200)	-	745					
Night (2200 - 0700)	1	594					
Complaint	s by Type of Operation						
Arrivals	2	.027					
Departures	902						
Over-flights 109							
Touch & Go		25					
Not Linked to an Operation 0							
Complair	nts by Type of Aircraft						
Business Jet 105							
Helicopter	6						
Jet	2	705					
Military		0					
Not Reported (not linked to an aircraft)		0					
Other (Type information not available)		2					
Propeller		164					
Turbo-prop		81					

Number of Callers February 2022



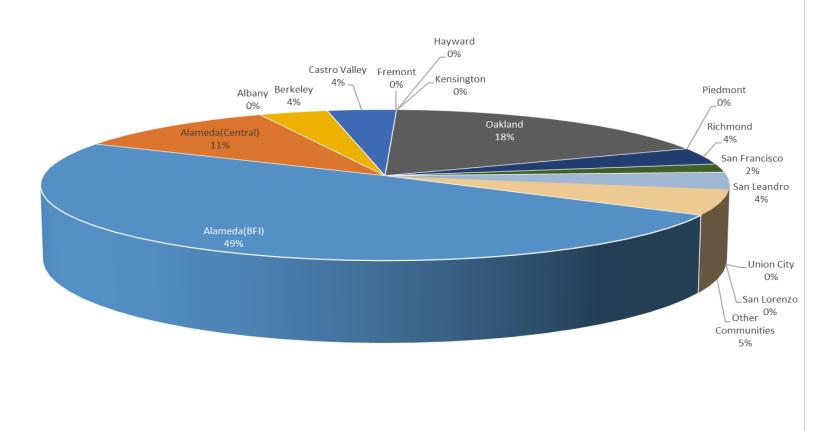
Number of Complaints February 2022



Oakland International Airport Noise Complaint Summary March 2022								
Community	Callers	Complaints						
Alameda(BFI)	27	225						
Alameda(Central)	6	17						
Albany	0	0						
Berkeley	2	3						
Castro Valley	2	40						
Fremont	0	0						
Hayward	0	0						
Kensington	0	0						
Oakland	10	3027						
Piedmont	0	0						
Richmond	2	54						
San Francisco	1	1						
San Leandro	2	18						
Union City	0	0						
San Lorenzo	0	0						
Other Communities	3	111						
Total	55	3496						
Complaints by Type								
Website 0								
E-mail	2927							
Phone	0							
View point App	· · · · · · · · · · · · · · · · · · ·							
Comp	laints by Time of Day							
Day(0700 - 1900)	ļ	518						
Evening (1900 - 2200)	1	268						
Night(2200 - 0700)	1710							
Complain	its by Type of Operation							
Arrivals	1	932						
Departures	1509							
Over-flights		14						
Touch & Go		41						
Not Linked to an Operation		0						
Compla	ints by Type of Aircraft							
Business Jet		128						
Helicopter		11						
Jet	3	240						
Military		0						
Not Reported (not linked to an aircraft)		0						
Other (Type information not available)		2						
Propeller		77						
Turbo-prop		38						

Number of Callers March 2022

Noise Complaints Summary by Number of Callers



Number of Complaints March 2022

Noise Complaints Summary by Number of Complaints

