

Short Term Monitoring Program

Salter Point, WA

Version Control

Version 1: 7 November 2014	
Section	Summary

Glossary of Terms

A	Arrivals
Background noise level (L90)	The sound level in dB(A) that is exceeded 90% of the time
Correlated Noise Event (CNE)	A noise event correlated to an aircraft operation that flew through the capture zone
Correlation Summary	Percentage of captured aircraft operations correlated with noise events recorded by the noise monitor
D	Departures
Day	6:00am to 11:00pm
H	Helicopters
LAmx	Maximum sound level in dB(A)
Local	Operation that departs and arrives at the same airport. Local movements include circuits and training flights.
Movement	An aircraft operation, such as an arrival or departure
Night	11:00 pm to 6:00 am
NFPMS	Noise and Flight Path Monitoring System
Noise Event	A noise that exceeds the threshold sound level for longer than the threshold time that is set
NMT	Noise Monitoring Terminal
O	Overflight i.e. an aircraft movement that flew over the area but did not arrive or depart from the airport of concern
T	Local Operation (Departure and Arrival)
Threshold	Determined level on noise monitor that triggers a noise event when exceeded

For further information on the metrics used in this report refer to Australian Standard 1055.1–1997 “Acoustics – Description and measurement of environmental noise”.

Airservices Noise Monitoring Program

Information about Airservices noise monitoring program is available on the Airservices website, including reports of the noise and operational data collected by the Noise and Flight Path Monitoring System, as well as fact sheets about topics related to aircraft noise. The website is available at: www.airservicesaustralia.com/aircraftnoise/

Contact Us

To lodge a complaint or make an enquiry about aircraft operations, you can go to WebTrak (www.airservicesaustralia.com/aircraftnoise/webtrak/) use our online form (www.airservicesaustralia.com/aircraftnoise/about-making-a-complaint/) telephone 1800 802 584 (freecall) or 1300 302 240 (local call –Sydney) fax (02) 9556 6641 or write to, Noise Complaints and Information Service, PO Box 211, Mascot NSW 1460.

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This report contains a summary of data collected over the specified period and is intended to convey the best information available from the NFPMS at the time. The system databases are to some extent dependent upon external sources and errors may occur. All care is taken in preparation of the report but its complete accuracy can not be guaranteed. Airservices Australia does not accept any legal liability for any losses arising from reliance upon data in this report which may be found to be inaccurate.

Deployment Purpose

Short term noise monitoring was conducted at Salter Point following recommendations made by the community.

The purpose of this report is to provide a technical summary of the recorded aircraft noise and operational data collected at Salter Point between August and September 2014.

An explanation of terms used within this report can be found in the Glossary on page 2 of the report.

Deployment Monitoring Period

28/07/2014 12:00 am – 29/09/2014 12:00 am

Noise Monitoring Terminal (NMT) Details

Location	Private Residence, Hope Avenue, Salter Point, WA 6152
Latitude	32° 1' 14.18" S
Longitude	115° 52' 25.72"E
NMT Altitude	32 ft above mean sea level
Capture Zone	2.5 km radius with 8,000 ft (above ground level) height for noise data capture
Threshold Settings	46.0 dB(A) to 50.0 dB(A) depending on time of day

Salter Point Findings

- For more information please refer to Figure 1, Figure 2 and Table 1 on page 4.
- The noise monitor was located in Salter Point 13 km to the south west of Perth airport.
- 4,063 movements flew through the capture zone during the reporting period. 2,997 of these were Perth operations.
- 71% of total operations that flew through the capture zone (as shown in figure 2) were Perth Runway 21 Departures.
- 2,432 correlated noise events exceeded 65 dB(A), 468 of these occurred during the hours of night.
- The number of correlated noise events exceeding 65 dB(A) in any one day ranged from none to 93.
- Residents of Salter Point experienced 62 correlated noise events that exceed 75 dB(A) during the reporting period.
- The loudest correlated aircraft noise event with a max level of 93.9 dB(A) was a Partenavia P.68 operating from Bunbury airport.
- The correlation summary for all movements was 78%. This is considered a good result based on reviews of fixed noise monitoring terminals nationally.

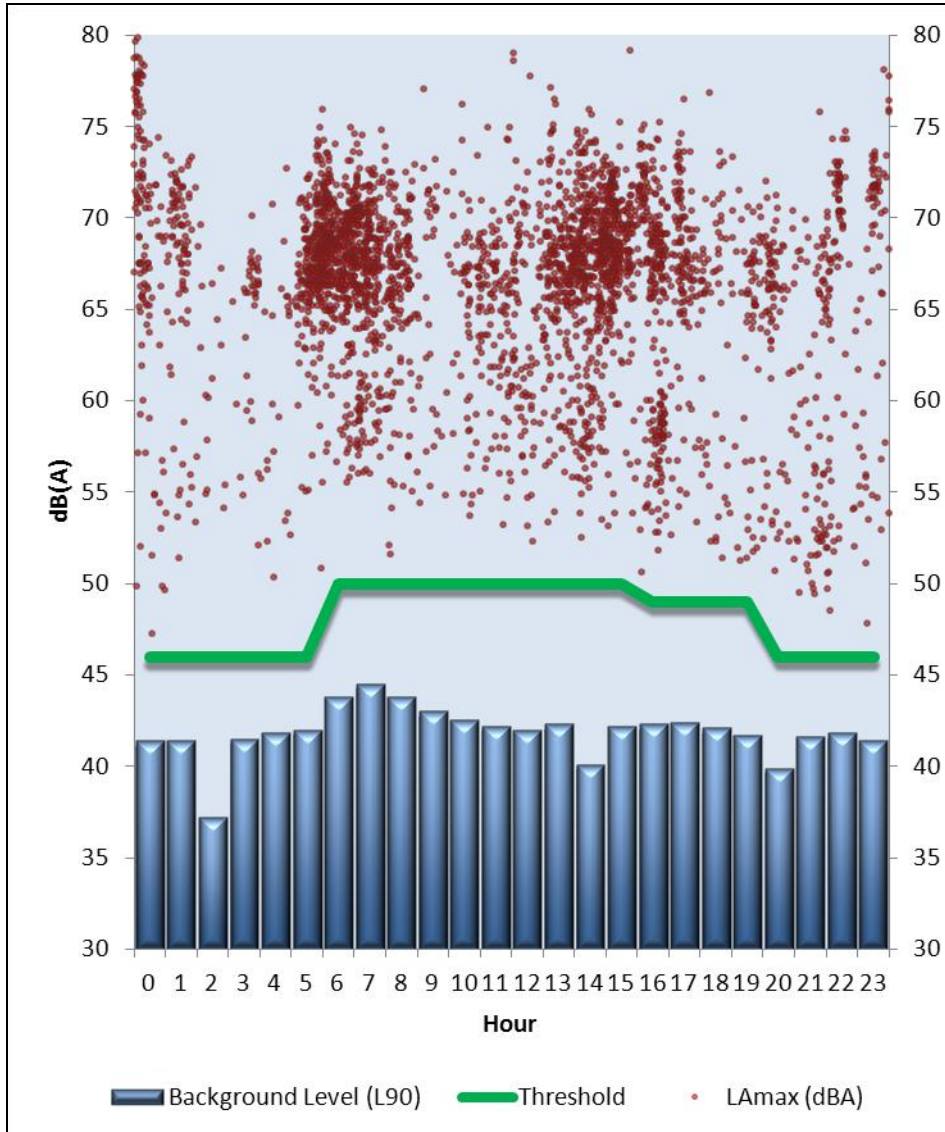


FIGURE 1: SALTER POINT NOISE SUMMARY
28/07/2014 12:00AM – 29/09/2014 12:00AM

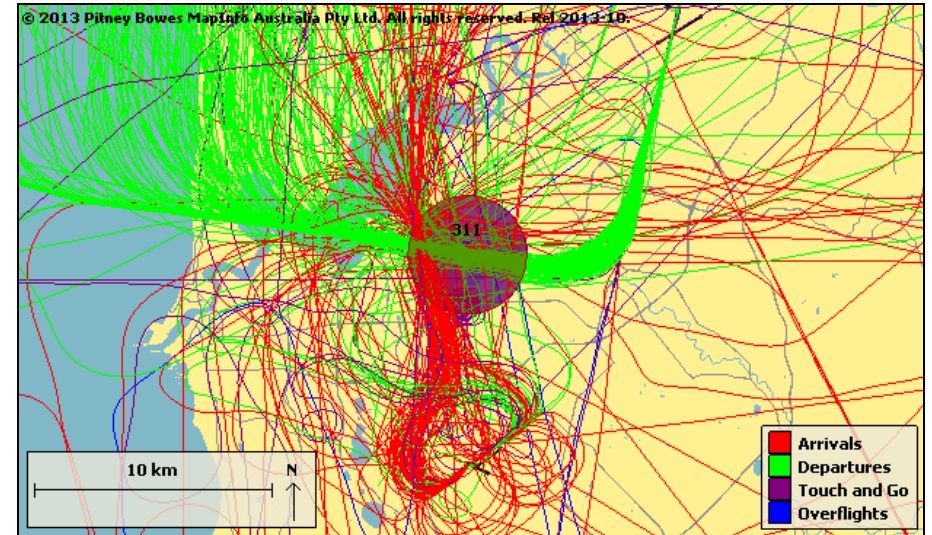


FIGURE 2: INDICATIVE TRACK PLOT OF OPERATIONS THAT TRAVERSED SALTER POINT
(03/08/2014 12:00AM – 10/08/2014 12:00AM)

TABLE 1: TOP 10 MOST CORRELATED AIRCRAFT TYPES OVER THE SALTER POINT NOISE MONITORING TERMINAL

Aircraft Type	Airport	Operation Type	RWY	No. Correlated Noise Events	LAm _{ax} dB(A)	
					Average	Maximum
Fokker 100 (J)	Perth	D	21	591	68.9	74.9
Boeing 737-800 (J)	Perth	D	21	497	67.4	73.5
Airbus A320 (J)	Perth	D	21	386	66.5	71.8
Boeing 717-200 (J)	Perth	D	21	284	66.6	73.0
Airbus A330-300 (J)	Perth	D	21	254	70.1	77.8
Avro RJ-100 Avroliner (J)	Perth	D	21	144	68.4	74.9
Boeing 777-300 (J)	Perth	D	21	130	71.3	74.3
Boeing 777-200 (J)	Perth	D	21	98	71.0	76.5
Fokker 50 (T)	Perth	D	21	85	58.7	68.2
Bombardier Dash 8 400 (T)	Perth	D	21	81	59.3	67.3

Aircraft Category: Jet (J), Turboprop (T), Propeller (P), Helicopter (H), Unknown (U)

Operation Type: Arrival (A), Departure (D), Local Operation (T), Overflight (O)