

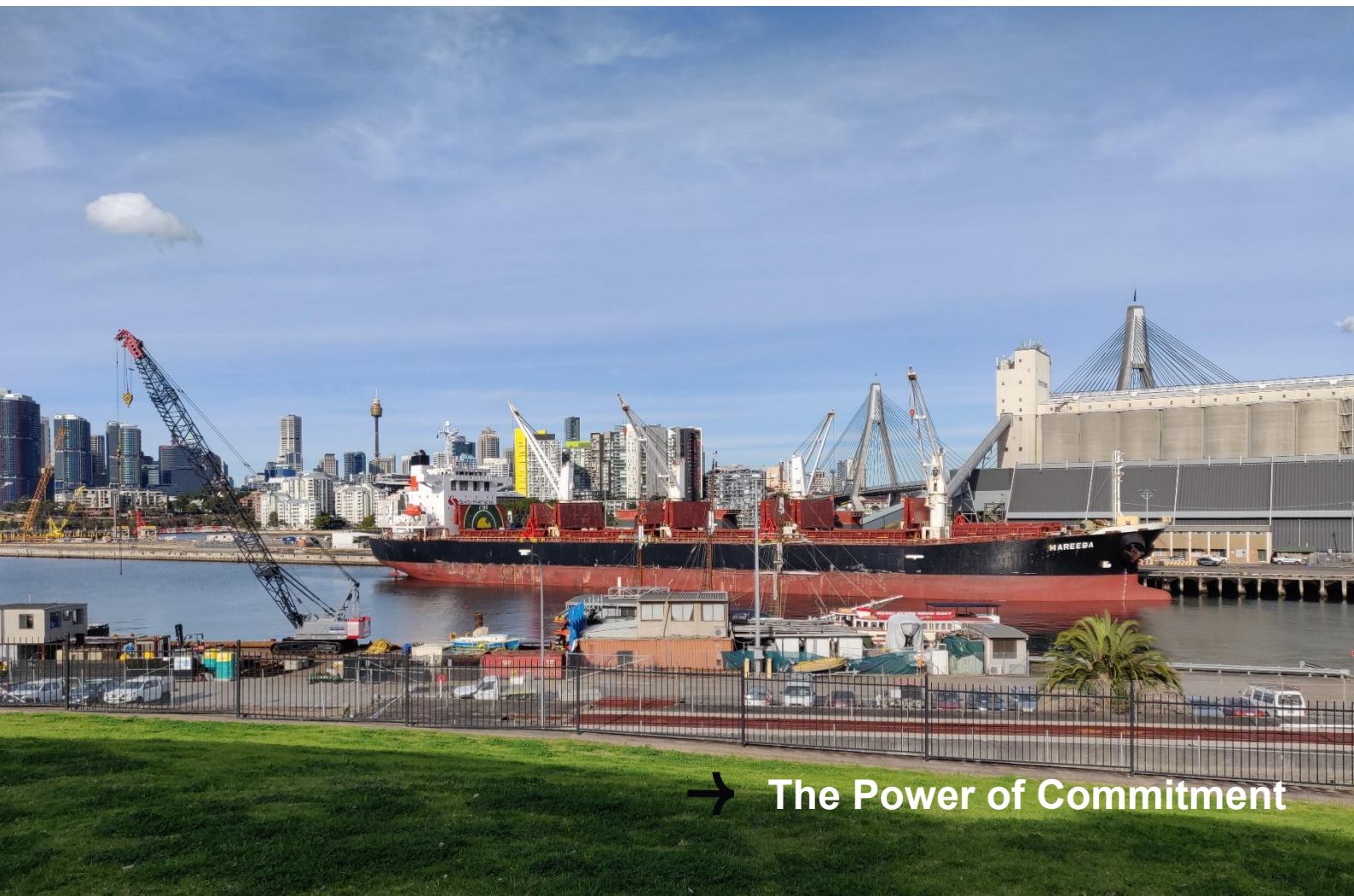


# Monthly compliance noise monitoring report

**Glebe Island / White Bay**

Port Authority of New South Wales

April 2026



→ The Power of Commitment

**GHD Pty Ltd | ABN 39 008 488 373**

133 Castlereagh Street, Level 15

Sydney, New South Wales 2000, Australia

**T** +61 2 9239 7100 | **F** +61 2 9239 7199 | **E** [sydmail@ghd.com](mailto:sydmail@ghd.com) | **ghd.com**

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>Author</b>           | Chris Gordon                                            |
| <b>Client name</b>      | Port Authority of New South Wales                       |
| <b>Document title</b>   | Monthly compliance noise monitoring report – April 2026 |
| <b>Revision version</b> | Rev 0                                                   |
| <b>Project number</b>   | 12540862                                                |

**Document status**

| Status Code | Revision | Author         | Reviewer |                                                                                     | Approved for issue |                                                                                       |            |
|-------------|----------|----------------|----------|-------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|------------|
|             |          |                | Name     | Signature                                                                           | Name               | Signature                                                                             | Date       |
| S4          | 0        | C Gordon       | C Doyle  |  | E Milton           |  | 05/06/2026 |
| S4          | 1        | C. Lang Piason | C Doyle  |  | E Milton           |  | 03/07/26   |

© GHD 2026

This document is and shall remain the property of GHD. The document may only be used for the purpose for which it was commissioned and in accordance with the Terms of Engagement for the commission. Unauthorised use of this document in any form whatsoever is prohibited.

# 1. Introduction

GHD Pty Ltd (GHD) has been engaged by Port Authority of New South Wales (Port Authority) to undertake compliance noise monitoring, as required by the *Port Noise Policy (Port Authority, 2020)*.

This report provides the details of the compliance noise monitoring for all vessels at berth during April 2026, as determined using the noise monitoring system. A detailed description of the permanent noise monitoring system including a map of monitoring locations is provided in the Noise Monitoring Plan, available on Port Authority's website.

# 2. Noise monitoring details and vessel schedule

| Client                            | Company details                                                         | Noise monitor name | Noise monitor location            | Noise monitor details / settings                                                     | Noise monitor serial numbers | Monthly calibration variance                                                                     |
|-----------------------------------|-------------------------------------------------------------------------|--------------------|-----------------------------------|--------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------|
| Port Authority of New South Wales | GHD Pty Ltd                                                             | L01                | Grafton Street, Balmain           | <b>Meter details</b><br>Norsonic Nor145 Sound Level Meter with Nor1297 Noise Compass | 14529642                     | <b>Initial calibration level 94.3 dBA</b><br>Min. deviation = 0.0 dB<br>Max. deviation = 0.1 dB  |
|                                   | Member of the Association of Australasian Acoustical Consultants (AAAC) | L02                | Maintenance Building on White Bay |                                                                                      | 14529645                     | <b>Initial calibration level 91.3 dBA</b><br>Min. deviation = 0.0 dB<br>Max. deviation = 0.1 dB  |
|                                   | Lead staff are Members of the Australian Acoustical Society (AAS)       | L03                | Adjacent to White Bay 2           | <b>Meter settings</b><br>A-weighted Fast time response 15 minute intervals           | 14529644                     | <b>Initial calibration level 92.9 dBA</b><br>Min. deviation = -0.1 dB<br>Max. deviation = 0.0 dB |
|                                   |                                                                         | L04                | Onsite at Glebe Island            |                                                                                      | 14529646                     | <b>Initial calibration level 92.3 dBA</b><br>Min. deviation = -0.1 dB<br>Max. deviation = 0.0 dB |
| Vessel name                       | Arrival date and time                                                   |                    | Departure date and time           |                                                                                      | Berth location               | Applicable noise monitoring location/s                                                           |
| Bulk vessels                      |                                                                         |                    |                                   |                                                                                      |                              |                                                                                                  |
| Luga <sup>1</sup>                 | March 29, 2026 / 17:55                                                  |                    | April 3, 2026 / 9:47              |                                                                                      | GLB8                         | L03                                                                                              |
| Akuna                             | April 9, 2026 / 00:24                                                   |                    | April 10, 2026 / 20:00            |                                                                                      | GLB8                         | L03                                                                                              |
| Elanora <sup>2</sup>              | April 9, 2026 / 11:53                                                   |                    | April 14, 2026 / 13:01            |                                                                                      | GLB7/WHT4/<br>GLB1           | L03                                                                                              |

| Vessel name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Arrival date and time  | Departure date and time | Berth location | Applicable noise monitoring location/s |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|----------------|----------------------------------------|
| Pioneer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | April 13, 2026 / 10:39 | April 17, 2026 / 5:48   | GLB7           | L03                                    |
| Sea Falcon <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | April 25, 2026 / 3:26  | April 28, 2026 / 21:04  | GLB7           | L03                                    |
| Cruise vessels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                         |                |                                        |
| Carnival Adventure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | April 2, 2026 / 3:41   | April 2, 2026 / 15:35   | WBCT           | L01                                    |
| Riviera                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | April 3, 2026 / 9:30   | April 4, 2026 / 16:03   | WBCT           | L01                                    |
| Carnival Adventure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | April 7, 2026 / 6:32   | April 7, 2026 / 15:37   | WBCT           | L01                                    |
| Vista                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | April 9, 2026 / 6:54   | April 9, 2026 / 19:48   | WBCT           | L01                                    |
| Carnival Adventure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | April 11, 2026 / 5:55  | April 11, 2026 / 15:34  | WBCT           | L01                                    |
| Carnival Adventure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | April 20, 2026 / 7:38  | April 20, 2026 / 16:55  | WBCT           | L01                                    |
| Other vessel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                         |                |                                        |
| Sycamore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | April 1, 2026 / 8:25   | April 1, 2026 / 9:32    | WHT4           | L02                                    |
| HMAS Supply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | April 2, 2026 / 15:30  | April 7, 2026 / 10:20   | GLB1           | No monitoring undertaken               |
| Notes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                         |                |                                        |
| <ol style="list-style-type: none"> <li>1. A movement of Luga was recorded at 11:00 on 01/04/2026, but the vessel did not leave GLB8.</li> <li>2. Elanora arrived moved from GLB7 to WHT4 on 10/04/2026 at 19:37. Then, it moved back to GLB7 on 10/04/2026 at 22:35. On 13/04/2026 at 09:03, it moved from GLB7 to GLB1. Its departure from GLB1 was on 14/04/2026 at 13:01.</li> <li>3. A movement of Sea Falcon was recorded on 26/04/2026 at 19:36 but the vessel did not leave GLB7.</li> </ol> |                        |                         |                |                                        |

## 2.1 Compliance summary

### 2.1.1 Bulk vessels / other vessels

| Vessel                                                                                                                                                                                                                                                                                | Dates at berth <sup>1</sup> | Monitor location | Vessel Noise Level, dBA<br>(inclusive of any modifying factor penalties) |                                               |                            | Vessel Noise Trigger Levels, dBA             |                                               |                            | Compliance <sup>2</sup>                      |                                               |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------|--------------------------------------------------------------------------|-----------------------------------------------|----------------------------|----------------------------------------------|-----------------------------------------------|----------------------------|----------------------------------------------|-----------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                       |                             |                  | Day <sup>3</sup><br>L <sub>Aeq</sub> (15 hr)                             | Night <sup>4</sup><br>L <sub>Aeq</sub> (1 hr) | Night<br>L <sub>Amax</sub> | Day <sup>3</sup><br>L <sub>Aeq</sub> (15 hr) | Night <sup>4</sup><br>L <sub>Aeq</sub> (1 hr) | Night<br>L <sub>Amax</sub> | Day <sup>3</sup><br>L <sub>Aeq</sub> (15 hr) | Night <sup>4</sup><br>L <sub>Aeq</sub> (1 hr) | Night<br>L <sub>Amax</sub> |
| Bulk vessels                                                                                                                                                                                                                                                                          |                             |                  |                                                                          |                                               |                            |                                              |                                               |                            |                                              |                                               |                            |
| Luga                                                                                                                                                                                                                                                                                  | Mar 29 – Apr 3              | L03              | 57                                                                       | 57                                            | 64                         | 60                                           | 55                                            | 65                         | Yes                                          | No                                            | Yes                        |
| Akuna                                                                                                                                                                                                                                                                                 | Apr 9 – Apr 10              | L03              | 56                                                                       | 52                                            | 63                         | 60                                           | 55                                            | 65                         | Yes                                          | Yes                                           | Yes                        |
| Elanora                                                                                                                                                                                                                                                                               | Apr 9 – Apr 14              | L03              | 56                                                                       | 54                                            | 65                         | 60                                           | 55                                            | 65                         | Yes                                          | Yes                                           | Yes                        |
| Pioneer                                                                                                                                                                                                                                                                               | Apr 13 – Apr 17             | L03              | 53                                                                       | 50                                            | 64                         | 60                                           | 55                                            | 65                         | Yes                                          | Yes                                           | Yes                        |
| Sea Falcon                                                                                                                                                                                                                                                                            | Apr 25 – Apr 28             | L03              | 61                                                                       | 61                                            | 61                         | 60                                           | 55                                            | 65                         | No                                           | No                                            | Yes                        |
| Other vessels                                                                                                                                                                                                                                                                         |                             |                  |                                                                          |                                               |                            |                                              |                                               |                            |                                              |                                               |                            |
| Sycamore                                                                                                                                                                                                                                                                              | April 1                     | L02              | - <sup>5</sup>                                                           | -                                             | -                          | 60                                           | 55                                            | 65                         | No                                           | No                                            | Yes                        |
| Notes:                                                                                                                                                                                                                                                                                |                             |                  |                                                                          |                                               |                            |                                              |                                               |                            |                                              |                                               |                            |
| 1. Dates are presented as the calendar dates on which the vessel arrived. The detailed results sections present the dates as per the assessment period, between 7am and 7am.                                                                                                          |                             |                  |                                                                          |                                               |                            |                                              |                                               |                            |                                              |                                               |                            |
| 2. If non-compliance is detected, a detailed investigation of the results will be undertaken and reported separately if required                                                                                                                                                      |                             |                  |                                                                          |                                               |                            |                                              |                                               |                            |                                              |                                               |                            |
| 3. Daytime period (7 am to 10 pm) – 15-hour logarithmic average                                                                                                                                                                                                                       |                             |                  |                                                                          |                                               |                            |                                              |                                               |                            |                                              |                                               |                            |
| 4. Night-time (10 pm to 7 am) – loudest 1 hour period                                                                                                                                                                                                                                 |                             |                  |                                                                          |                                               |                            |                                              |                                               |                            |                                              |                                               |                            |
| 5. The Sycamore was present for approximately an hour. Given this, no data is available in the system for this vessel and the vessel was not at berth long enough to get an accurate vessel noise level. Noise levels for this ship will be measured and reported when next at berth. |                             |                  |                                                                          |                                               |                            |                                              |                                               |                            |                                              |                                               |                            |

## 2.2 Cruise vessels

| Vessel             | Dates at berth        | Monitor location | Vessel Noise Level, dBA<br>(inclusive of any modifying factor penalties) |                                               | Vessel Noise Trigger Levels, dBA             |                                               | Compliance <sup>1</sup> |       |
|--------------------|-----------------------|------------------|--------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------|-----------------------------------------------|-------------------------|-------|
|                    |                       |                  | Day <sup>2</sup><br>L <sub>Aeq</sub> (15 hr)                             | Night <sup>3</sup><br>L <sub>Aeq</sub> (9 hr) | Day <sup>2</sup><br>L <sub>Aeq</sub> (15 hr) | Night <sup>3</sup><br>L <sub>Aeq</sub> (9 hr) | Day                     | Night |
| Carnival Adventure | April 1 <sup>4</sup>  | L01              | -                                                                        | 48                                            | N/A                                          | 58                                            | N/A                     | Yes   |
|                    | April 2               | L01              | 59                                                                       | -                                             | N/A                                          | 58                                            | N/A                     | -     |
| Riviera            | April 3               | L01              | 55                                                                       | 54                                            | N/A                                          | 58                                            | N/A                     | Yes   |
|                    | April 4               | L01              | 55                                                                       | -                                             | N/A                                          | 58                                            | N/A                     | -     |
| Carnival Adventure | April 6 <sup>5</sup>  | L01              | -                                                                        | 56                                            | N/A                                          | 58                                            | N/A                     | Yes   |
|                    | April 7               | L01              | 57                                                                       | -                                             | N/A                                          | 58                                            | N/A                     | -     |
| Vista              | April 9               | L01              | 56                                                                       | -                                             | N/A                                          | 58                                            | N/A                     | -     |
| Carnival Adventure | April 10 <sup>6</sup> | L01              | -                                                                        | 51                                            | N/A                                          | 58                                            | N/A                     | Yes   |
|                    | April 11              | L01              | 58                                                                       | -                                             | N/A                                          | 58                                            | N/A                     | -     |
| Carnival Adventure | April 20              | L01              | 60 <sup>8</sup>                                                          | -                                             | N/A                                          | 58                                            | N/A                     | -     |

**Notes:**

1. If non-compliance is detected, a detailed investigation of the results will be undertaken and reported separately if required
2. Daytime period (7 am to 10 pm) – 15 hour logarithmic average
3. Night-time (10 pm to 7 am) – 9 hour logarithmic average
4. The system classifies April 1 as the period from 7 am on April 1 to 7 am on April 2. The Carnival Adventure arrived at 03:41 am on April 2 and has been incorporated in the data for April 1.
5. The system classifies April 6 as the period from 7 am on April 6 to 7 am on April 7. The Carnival Adventure arrived at 06:32 am on April 7 and has been incorporated in the data for April 6.
6. The system classifies April 10 as the period from 7 am on April 10 to 7 am on April 11. The Carnival Adventure arrived at 05:55 am on April 11 and has been incorporated in the data for April 10.
7. The vista arrived at 6:54am on April 9. Given the brief time at berth, the system has not calculated a noise level for assessment for the night period of April 8<sup>th</sup>.
8. This noise level may be impacted by other works at the port and not representative of the vessel.

Port Authority provides attenuation to a defined area of residences where noise modelling indicates that current noise levels reach or exceed 55 dBA at night ('attenuation eligibility trigger'). Under the White Bay Cruise Terminal Noise Restriction Policy, cruise ship noise which causes further residences than those currently identified to exceed the attenuation eligibility trigger is considered to be Excessive Noise. Hence under the Noise Restriction Policy a day time trigger level does not apply. The area of residences currently offered attenuation (ie meeting the 'attenuation eligibility trigger') is based on a reference cruise vessel intrusive noise level of 58 dBA at the nearest residence, which sets the Vessel Noise Trigger Level for assessing compliance at night.

Excessive noise is defined as "any noise including but not limited to engine, generator or ventilation noise which causes further residences than those currently identified to exceed the attenuation eligibility trigger."

### 3. Detailed results – bulk vessels / other vessels

#### 3.1 Luga (GLB8) – March 29, 2026 – April 3, 2026

##### 3.1.1 Daily noise monitoring results

| Date           | Time period <sup>1</sup> | Monitor location | Noise descriptor                        | Vessel noise level dBA <sup>2</sup> | Tonal            | LFN <sup>3</sup> | Vessel Noise Trigger Levels, dBA | Compliance |
|----------------|--------------------------|------------------|-----------------------------------------|-------------------------------------|------------------|------------------|----------------------------------|------------|
| March 29, 2026 | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 57                                  | No               | Yes              | 60                               | Yes        |
|                | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 56 <sup>4</sup>                     | Yes <sup>4</sup> | Yes              | 55                               | No         |
|                |                          |                  | L <sub>Amax</sub>                       | 63                                  | -                | -                | 65                               | Yes        |
| March 30, 2026 | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 56                                  | No               | Yes              | 60                               | Yes        |
|                | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 57 <sup>4</sup>                     | Yes <sup>4</sup> | Yes              | 55                               | No         |
|                |                          |                  | L <sub>Amax</sub>                       | 62                                  | -                | -                | 65                               | Yes        |
| March 31, 2026 | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 57                                  | No               | Yes              | 60                               | Yes        |
|                | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 57 <sup>4</sup>                     | Yes <sup>4</sup> | Yes              | 55                               | No         |
|                |                          |                  | L <sub>Amax</sub>                       | 64                                  | -                | -                | 65                               | Yes        |
| April 1, 2026  | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 56                                  | No               | Yes              | 60                               | Yes        |
|                | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 55 <sup>4</sup>                     | Yes <sup>4</sup> | Yes              | 55                               | Yes        |
|                |                          |                  | L <sub>Amax</sub>                       | 59                                  | -                | -                | 65                               | Yes        |
| April 2, 2026  | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 55                                  | No               | Yes              | 60                               | Yes        |
|                | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 57 <sup>4</sup>                     | Yes <sup>4</sup> | Yes              | 55                               | No         |
|                |                          |                  | L <sub>Amax</sub>                       | 64                                  | -                | -                | 65                               | Yes        |
| April 3, 2026  | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 57                                  | No               | Yes              | 60                               | Yes        |
|                | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | -                                   | No               | Yes              | 55                               | Yes        |
|                |                          |                  | L <sub>Amax</sub>                       | -                                   | -                | -                | 65                               | Yes        |

Notes:

- 1) Daytime period (7 am to 10 pm) – 15 hours  
Night-time period (10 pm to 7 am) – worst case 1 hour
- 2) Inclusive of any penalties for modifying factors
- 3) LFN = Low Frequency Noise
- 4) Measurements determined that noise was tonal at 6,300 Hz for periods during this night time period. A further review into the data determined that this was likely associated with extraneous noise in the area rather than the vessel. As such, no tonal correction has been applied.

### 3.1.2 Additional information

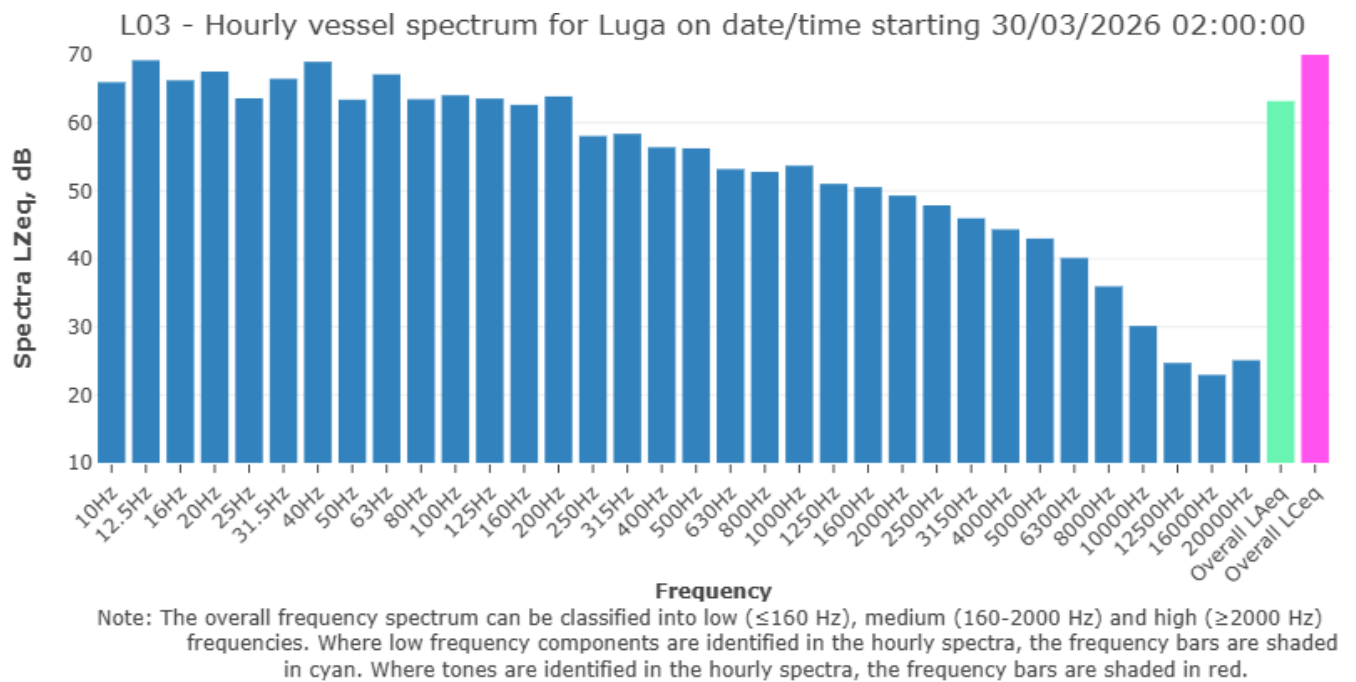


Figure 3.1 Typical vessel spectrum – noise level at L03

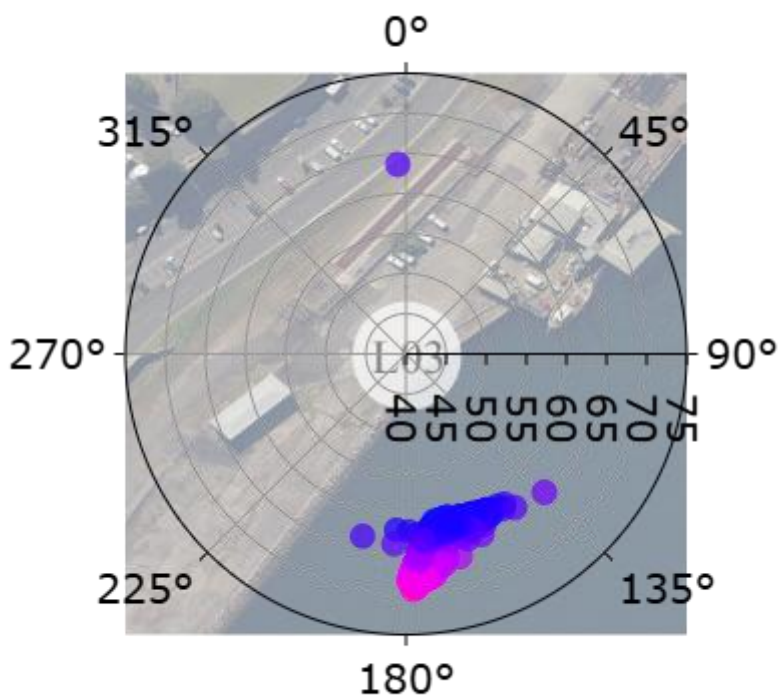


Figure 3.2 Typical vessel polar (directional) plot

## 3.2 Akuna (GLB8) – April 9, 2026 – April 10, 2026

### 3.2.1 Daily noise monitoring results

| Date                       | Time period <sup>1</sup> | Monitor location | Noise descriptor                        | Vessel noise level dBA <sup>2</sup> | Tonal            | LFN <sup>3</sup> | Vessel Noise Trigger Levels, dBA | Compliance |
|----------------------------|--------------------------|------------------|-----------------------------------------|-------------------------------------|------------------|------------------|----------------------------------|------------|
| April 8, 2026 <sup>4</sup> | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | -                                   | -                | -                | 60                               | -          |
|                            | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 49 <sup>5</sup>                     | Yes <sup>5</sup> | No               | 55                               | Yes        |
|                            |                          |                  | L <sub>Amax</sub>                       | 62                                  | -                | -                | 65                               | Yes        |
| April 9, 2026              | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 56                                  | Yes              | No               | 60                               | Yes        |
|                            | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 52 <sup>5</sup>                     | Yes <sup>5</sup> | No               | 55                               | Yes        |
|                            |                          |                  | L <sub>Amax</sub>                       | 63                                  | -                | -                | 65                               | Yes        |
| April 10, 2026             | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 56                                  | Yes              | No               | 60                               | Yes        |
|                            | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | -                                   | -                | -                | 55                               | -          |
|                            |                          |                  | L <sub>Amax</sub>                       | -                                   | -                | -                | 65                               | -          |

Notes:

- Daytime period (7 am to 10 pm) – 15 hours  
Night-time period (10 pm to 7 am) – worst case 1 hour inclusive of any penalties for modifying factors
- Inclusive of any penalties for modifying factors
- LFN = Low Frequency Noise
- The system classifies April 8 as the period from 7 am on April 8 to 7 am on April 9. The Akuna arrived at 00:24 am on April 9 and has been incorporated in the data for April 8.
- Measurements determined that noise was tonal at 6,300 Hz for periods during this night time period. A further review into the data determined that this was likely associated with extraneous noise in the area rather than the vessel. As such, no tonal correction has been applied.

### 3.2.2 Additional information

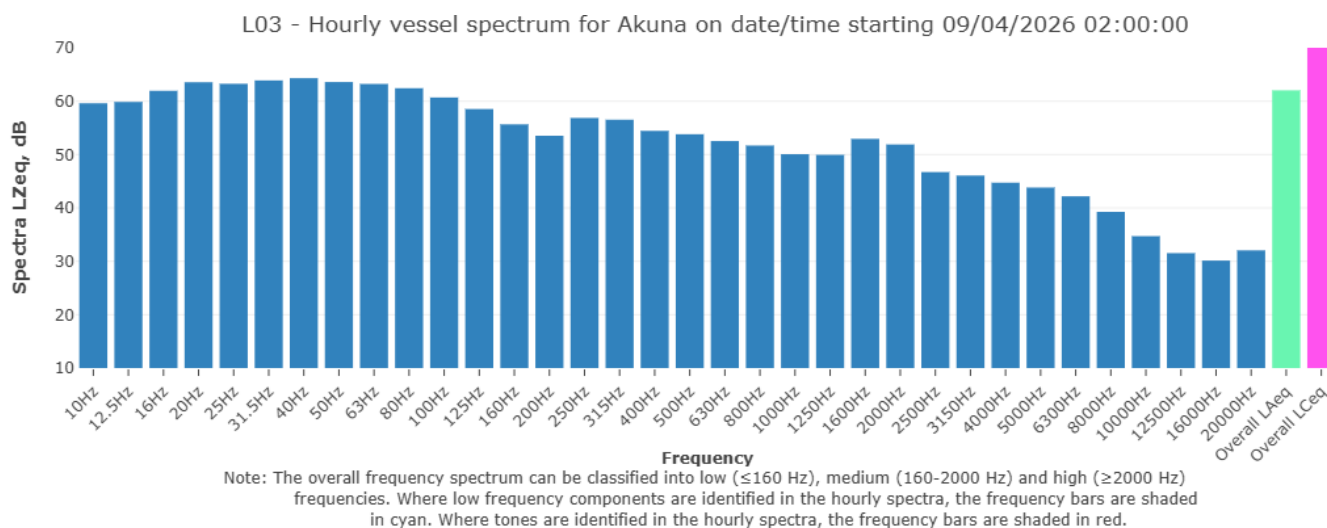


Figure 3.3 Typical vessel spectrum – noise level at L03

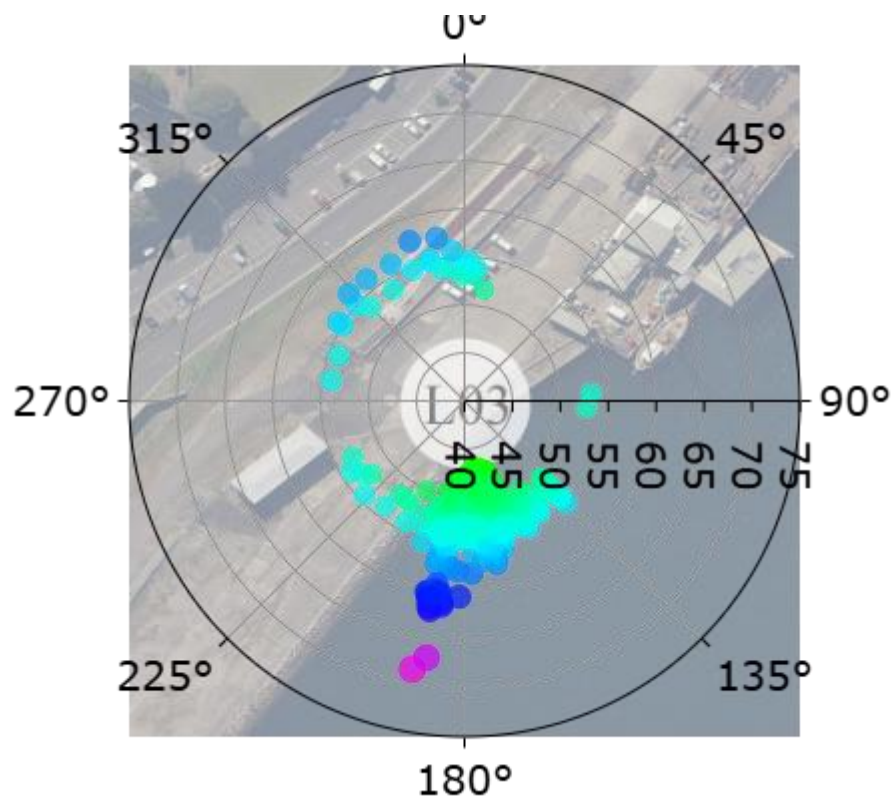


Figure 3.4 Typical vessel polar (directional) plot

## 3.3 Elanora (GLB7/WHT4/GLB1) – April 9, 2026 – April 14, 2026

### 3.3.1 Daily noise monitoring results

| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Time period <sup>1</sup> | Monitor location <sup>2</sup> | Noise descriptor                        | Vessel noise level dBA <sup>3</sup>                                                                                                                                                                                                                                      | Tonal            | LFN <sup>4</sup> | Vessel Noise Trigger Levels, dBA | Compliance |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|----------------------------------|------------|
| April 9, 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Day                      | L03                           | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | Elanora (GLB7/WHT4) and Akuna (GLB8) were both present at this time. Noise from the Akuna was dominant at during this period and have been assigned to this vessel. As noise levels remained within compliance for this period, no further discussion has been included. |                  |                  |                                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Night                    |                               | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  |                                                                                                                                                                                                                                                                          |                  |                  |                                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                               | L <sub>Amax</sub>                       |                                                                                                                                                                                                                                                                          |                  |                  |                                  |            |
| April 10, 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Day                      | L03                           | L <sub>Aeq</sub> , 15 hour <sup>1</sup> |                                                                                                                                                                                                                                                                          |                  |                  |                                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Night                    |                               | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 54 <sup>5</sup>                                                                                                                                                                                                                                                          | Yes <sup>5</sup> | Yes              | 55                               | Yes        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                               | L <sub>Amax</sub>                       | 62                                                                                                                                                                                                                                                                       | -                | -                | 65                               | Yes        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Day                      | L02                           | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 53                                                                                                                                                                                                                                                                       | No               | Yes              | 60                               | Yes        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Night                    |                               | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 51                                                                                                                                                                                                                                                                       | No               | Yes              | 55                               | Yes        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                               | L <sub>Amax</sub>                       | -                                                                                                                                                                                                                                                                        |                  |                  | 65                               | Yes        |
| April 11, 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Day                      | L03                           | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 56                                                                                                                                                                                                                                                                       | Yes              | Yes              | 60                               | Yes        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Night                    |                               | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 53 <sup>5</sup>                                                                                                                                                                                                                                                          | Yes <sup>5</sup> | Yes              | 55                               | Yes        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                               | L <sub>Amax</sub>                       | 62                                                                                                                                                                                                                                                                       | -                | -                | 65                               | Yes        |
| April 12, 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Day                      | L03                           | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 52                                                                                                                                                                                                                                                                       | Yes              | Yes              | 60                               | Yes        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Night                    |                               | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 48                                                                                                                                                                                                                                                                       | Yes              | Yes              | 55                               | Yes        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                               | L <sub>Amax</sub>                       | 65                                                                                                                                                                                                                                                                       | -                | -                | 65                               | Yes        |
| April 13, 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Day                      | L03                           | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 55                                                                                                                                                                                                                                                                       | Yes              | Yes              | 60                               | Yes        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Night                    |                               | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | No monitoring was conducted whilst the vessel was berthed at GLB1. Noise emissions from the vessel whilst it was berthed at GLB7 and WTH4 have been considered representative for this period.                                                                           |                  |                  |                                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                               | L <sub>Amax</sub>                       |                                                                                                                                                                                                                                                                          |                  |                  |                                  |            |
| April 14, 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Day                      | L05                           | L <sub>Aeq</sub> , 15 hour <sup>1</sup> |                                                                                                                                                                                                                                                                          |                  |                  |                                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Night                    |                               | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  |                                                                                                                                                                                                                                                                          |                  |                  |                                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                               | L <sub>Amax</sub>                       |                                                                                                                                                                                                                                                                          |                  |                  |                                  |            |
| Notes:<br>1. Daytime period (7 am to 10 pm) – 15 hours<br>Night-time period (10 pm to 7 am) – worst case 1 hour inclusive of any penalties for modifying factors<br>2.<br>3. Inclusive of any penalties for modifying factors<br>4. LFN = Low Frequency Noise<br>5. Measurements determined that noise was tonal at 6,300 Hz for periods during this night time period. A further review into the data determined that this was likely associated with extraneous noise in the area rather than the vessel. As such, no tonal correction has been applied. |                          |                               |                                         |                                                                                                                                                                                                                                                                          |                  |                  |                                  |            |

### 3.3.2 Additional information

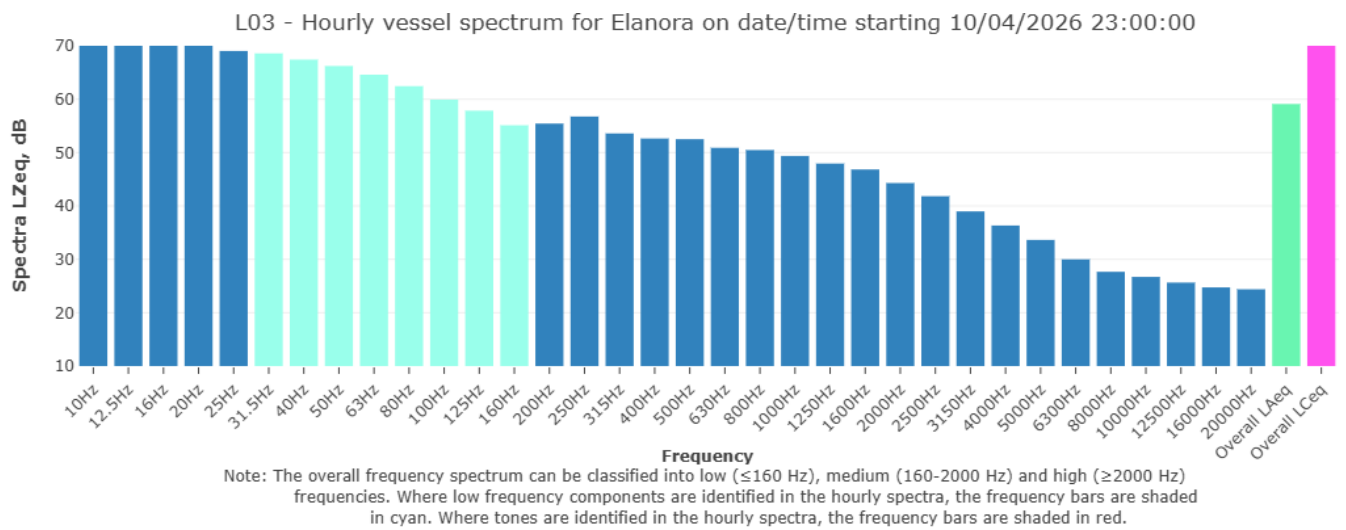


Figure 3.5 Typical vessel spectrum – noise level at L03

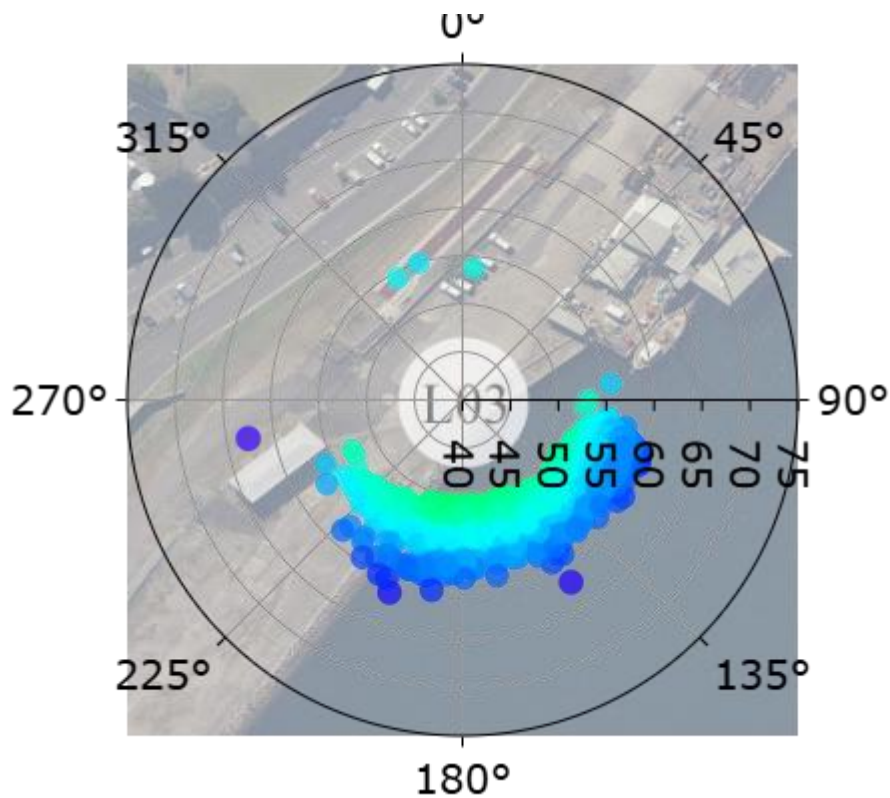


Figure 3.6 Typical vessel polar (directional) plot

## 3.4 Pioneer (GLB7) – April 13, 2026 – April 17, 2026

### 3.4.1 Daily noise monitoring results

| Date                        | Time period <sup>1</sup> | Monitor location | Noise descriptor                        | Vessel noise level dBA <sup>2</sup> | Tonal            | LFN <sup>3</sup> | Vessel Noise Trigger Levels, dBA | Compliance |
|-----------------------------|--------------------------|------------------|-----------------------------------------|-------------------------------------|------------------|------------------|----------------------------------|------------|
| April 13, 2026              | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 51                                  | No               | Yes              | 60                               | Yes        |
|                             | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 50                                  | No               | No               | 55                               | Yes        |
|                             |                          |                  | L <sub>Amax</sub>                       | 56                                  | -                | -                | 65                               | Yes        |
| April 14, 2026              | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 51                                  | Yes <sup>4</sup> | No               | 60                               | Yes        |
|                             | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 50 <sup>4</sup>                     | Yes <sup>4</sup> | No               | 55                               | Yes        |
|                             |                          |                  | L <sub>Amax</sub>                       | 56                                  | -                | -                | 65                               | Yes        |
| April 15, 2026              | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 53                                  | Yes <sup>4</sup> | No               | 60                               | Yes        |
|                             | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 50 <sup>4</sup>                     | Yes <sup>4</sup> | No               | 55                               | Yes        |
|                             |                          |                  | L <sub>Amax</sub>                       | 56                                  | -                | -                | 65                               | Yes        |
| April 16, 2026 <sup>6</sup> | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 51                                  | Yes <sup>4</sup> | No               | 60                               | Yes        |
|                             | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 47 <sup>5</sup>                     | Yes <sup>4</sup> | Yes              | 55                               | Yes        |
|                             |                          |                  | L <sub>Amax</sub>                       | 64                                  | -                | -                | 65                               | Yes        |

Notes:

- Daytime period (7 am to 10 pm) – 15 hours  
Night-time period (10 pm to 7 am) – worst case 1 hour inclusive of any penalties for modifying factors
- Inclusive of any penalties for modifying factors
- LFN = Low Frequency Noise
- Measurements determined that noise was tonal at 6,300 Hz for periods during this night time period. A further review into the data determined that this was likely associated with extraneous noise in the area rather than the vessel. As such, no tonal correction has been applied.
- Several maximum noise level events occurred between 4:56am and 5:57am on April 17. A further review into the data determined that this was likely associated with extraneous noise in the area rather than the vessel. This data has been excluded from the results
- The system classifies April 16 as the period from 7 am on April 16 to 7 am on April 17. The Pioneer departed at 05:48 am on April 17 and has been incorporated in the data for April 16.

### 3.4.2 Additional information

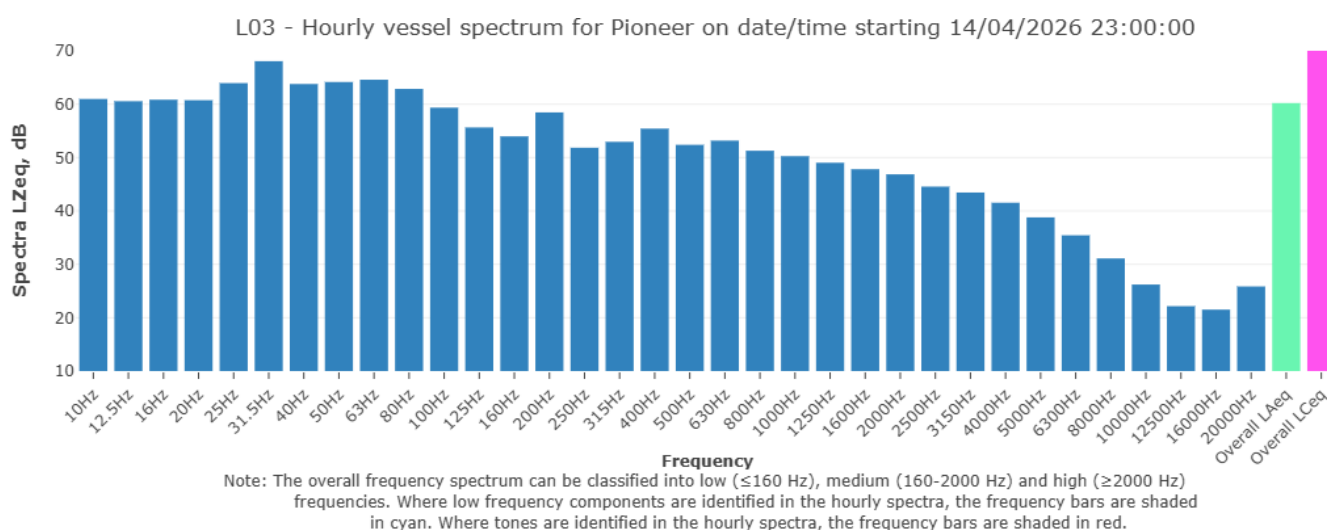


Figure 3.7 Typical vessel spectrum – noise level at L03

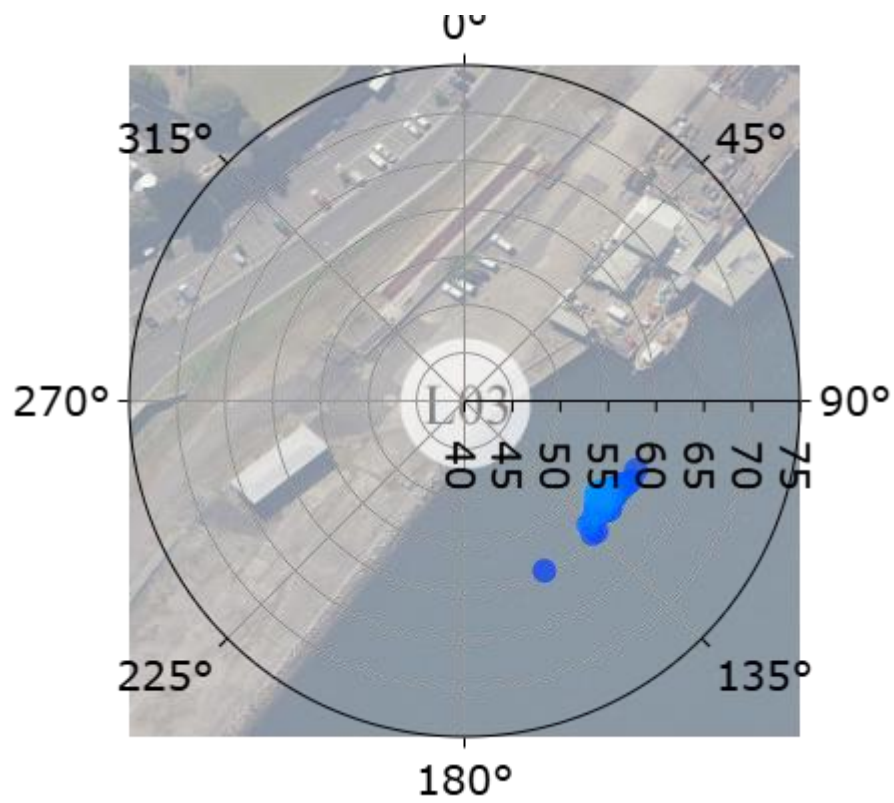


Figure 3.8 Typical vessel polar (directional) plot

## 3.5 Sea Falcon (GLB7) – April 25, 2026 – April 28, 2026

### 3.5.1 Daily noise monitoring results

| Date                        | Time period <sup>1</sup> | Monitor location | Noise descriptor                        | Vessel noise level dBA <sup>2</sup> | Tonal            | LFN <sup>3</sup> | Vessel Noise Trigger Levels, dBA | Compliance |
|-----------------------------|--------------------------|------------------|-----------------------------------------|-------------------------------------|------------------|------------------|----------------------------------|------------|
| April 24, 2026 <sup>4</sup> | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | -                                   | -                | -                | 60                               | -          |
|                             | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 60 <sup>5</sup>                     | Yes <sup>5</sup> | No               | 55                               | No         |
|                             |                          |                  | L <sub>Amax</sub>                       | 61                                  | -                | -                | 65                               | Yes        |
| April 25, 2026              | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 59 <sup>5</sup>                     | Yes <sup>5</sup> | No               | 60                               | Yes        |
|                             | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 61 <sup>5</sup>                     | Yes <sup>5</sup> | No               | 55                               | No         |
|                             |                          |                  | L <sub>Amax</sub>                       | 60                                  | -                | -                | 65                               | Yes        |
| April 26, 2026              | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 61 <sup>5</sup>                     | Yes <sup>5</sup> | No               | 60                               | No         |
|                             | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 60 <sup>5</sup>                     | Yes <sup>5</sup> | No               | 55                               | No         |
|                             |                          |                  | L <sub>Amax</sub>                       | 60                                  | -                | -                | 65                               | Yes        |
| April 27, 2026              | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 58                                  | Yes <sup>5</sup> | No               | 60                               | Yes        |
|                             | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | 57                                  | No               | No               | 55                               | No         |
|                             |                          |                  | L <sub>Amax</sub>                       | 59                                  | -                | -                | 65                               | Yes        |
| April 28, 2026              | Day                      | L03              | L <sub>Aeq</sub> , 15 hour <sup>1</sup> | 57                                  | Yes <sup>5</sup> | No               | 60                               | Yes        |
|                             | Night                    |                  | L <sub>Aeq</sub> , 1 hour <sup>1</sup>  | -                                   | -                | -                | 55                               | -          |
|                             |                          |                  | L <sub>Amax</sub>                       | -                                   | -                | -                | 65                               | -          |

Notes:

- Daytime period (7 am to 10 pm) – 15 hours  
Night-time period (10 pm to 7 am) – worst case 1 hour inclusive of any penalties for modifying factors
- Inclusive of any penalties for modifying factors
- LFN = Low Frequency Noise
- The system classifies April 24 as the period from 7 am on April 24 to 7 am on April 25. The Sea Falcon arrived at 03:26 am on April 25 and has been incorporated in the data for April 24.
- The vessel was determined to be tonal at 400 Hz during a large portion of this visit. A review of the audio confirmed that this was associated with the vessel. As such, a 5 dB correction has been applied to the measured noise level.

### 3.5.2 Discussion

The Sea Falcon was determined to be non-compliant for a significant portion of the vessel's visit to Glebe Island 7. Both the daytime and night-time vessel noise trigger level was exceeded at times during the visit. The main driver of the non-compliance was the 5dB tonal correction applied to the measured level in accordance with the NSW EPA's Noise Policy for Industry, as the vessel was determined to be tonal at 400 Hz for a significant portion of the visit. This was also confirmed by the audio recording of the vessel.

There were also periods when the vessel was not tonal, however the measured noise level still exceeded the vessel noise trigger level. While not technically tonal during these periods, the similar "whirring" noise was still present and the dominant noise source from the vessel.

It is recommended that further investigations into the vessel are undertaken prior to the vessel returning to White Bay.

### 3.5.3 Additional information

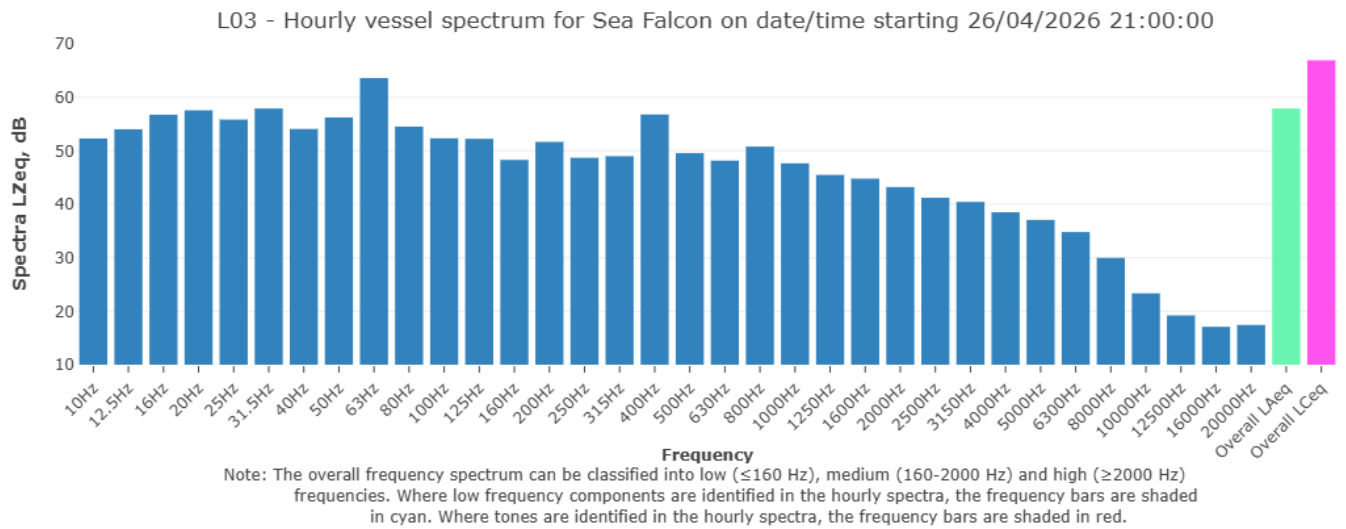


Figure 3.9 Typical vessel spectrum – noise level at L03

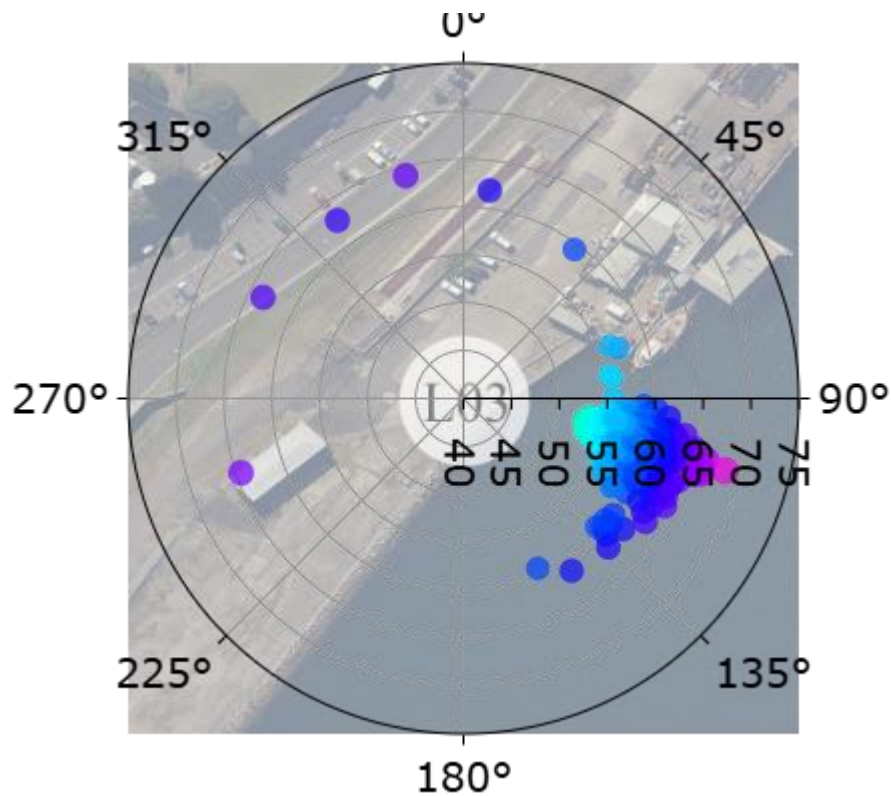


Figure 3.10 Typical vessel polar (directional) plot



[ghd.com](http://ghd.com)

→ **The Power of Commitment**