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Date: 16<sup>th</sup> June 2026

**Our Ref: 26.0604/DRK**

**FAO: Jon Woodhall, Paul Hutchinson & Ryan Coughlan**

**Ref: Birstall WTS, 2546 Pennine View, Batley – Proposed Operations During Bank Holiday Periods**

### **Technical Note - Noise**

Further to NVCs Environmental Noise Assessment report (ref. R24.0205/DRK dated 21<sup>st</sup> February 2024) for the 'Proposed Change of Use to Incorporate a Waste Transfer Station ('WTS') we have been instructed by Veolia to provide an assessment of the noise impact of the WTS site operating during the proposed Bank Holiday and Sunday periods at the noise sensitive receptor ('NSR').

The relevant condition that Veolia are seeking to amend relates to condition 6 of the planning consent (planning ref. 2024/62/90698/E), which is provided below for ease of reference.

The proposed additional operating hours includes the following:

- (i) Waste deliveries & shredding during Bank Holiday periods would include operating hours between 0700 to 1700 hours.
- (ii) Sunday deliveries & shredding during Sunday periods between 0700 to 1400 hours.
- (iii) Glass deliveries and collection during Sunday or Bank Holiday periods between 1100 to 1400 hours.

*"6. Operating hours including deliveries to or dispatches from the premises, shall be limited to the following: Waste Transfer Station/ Refuse Derived Fuel Production/Bulking & Baling*

- *Monday to Friday 0600 to 1700 hours & Saturday 0600 to 1400 hours Vehicle times for deliveries/collections/servicing (except glass)*
- *Monday to Friday 0600 to 1700 hours & Saturday 0600 to 1400 hours Glass tipping*
- *Monday to Friday 0700-1700 hours and Saturday 0800- 1400 hours Glass loading onto Bulker*
- *Monday to Friday 0900 to 1700 hours Shredding*
- *Monday to Friday: 0600-1700 hours & Saturday 0700 to 1400 hours.*

*No activities shall take place on Sundays or Bank Holidays*

*Reason: To ensure that the proposed use(s) does not give rise to the loss of amenity to nearby residential properties, by reason of noise or disturbance at unsociable hours, to accord with the aims of Policies LP24 and LP52 of the Kirklees Local Plan and Chapters 12 and 15 of the National Planning Policy Framework.”*

During the additional Bank Holiday and Sunday operating periods, HGVs would enter the WTS building, tip inside with access doors in the closed position, bulking of the waste material, exit of the HGV, and shredding of the waste with the assistance of relevant mobile plant with doors closed.

#### Information References:

- NVC Noise Assessment report (R24.0205/DRK dated 21<sup>st</sup> February 2024) for the 'Proposed Change of Use to Incorporate a Waste Transfer Station ('WTS')'.
- Planning Consent conditions (planning ref. 2024/62/90698/E) dated 2<sup>nd</sup> September 2024.
- ISO 9613-2: 2024 'Acoustics – Attenuation of Sound During Propagation Outdoors'.
- BS4142: 2014+A1:2019 'Methods for rating and assessing industrial and commercial sound'

#### Baseline Sound Survey Results

For the NVC Noise Assessment, background sound levels were measured at a fixed position on land opposite to the nearest property boundary (i.e. The Pheasant public house) and at same distance from Gelderd Road. These measurements were carried out between Friday 19<sup>th</sup> to Monday 22<sup>nd</sup> January 2024 by the author of this Technical Note (location shown on Figure 1 attached). Data logging of  $L_{Aeq}$ ,  $L_{A10}$ ,  $L_{A90}$  and  $L_{Amax}$  were recorded over 15-minute contiguous intervals.

Observations at site indicated that the noise climate is dominated by regular local road traffic noise.

In terms of bank holiday periods, whilst the amount of activity in respect of industrial units on the estate will be generally lower, the adjacent A62 Gelderd Road (which runs passed the Veolia Site) acts as a feed road into the retail and shopping park to the northeast of Site, which includes a cinema, food retail, toy store, IKEAS, shopping stores and many other retail and commercial businesses that would be open on bank holidays. The traffic generated is therefore likely to remain relatively high.

We have therefore compared the Saturday and Sunday baseline sound levels recorded in 2024 to provide a good indication of the likely background and ambient sound levels during the bank holiday periods.

The baseline sound levels during the Saturday and Sunday periods (0600 to 1700 hours) are summarised below in Table 1 and in more detail in Appendix 1 attached.

**Table 1: Baseline Sound Levels**

| Location           | Day & Time (hours)   | $L_{Aeq}$ dB | Representative $L_{A90}$ dB | $L_{Amax}$ dB |
|--------------------|----------------------|--------------|-----------------------------|---------------|
| A) 5m Pennine View | Saturday (0700-1700) | 71           | <b>62</b>                   | 77-88         |
|                    | Saturday (0700-0800) | 67           | <b>54</b>                   | 78-82         |
|                    | Saturday (0800-0900) | 68           | <b>54</b>                   | 80-83         |
| A) 5m Pennine View | Sunday (0700-1700)   | 70           | <b>63</b>                   | 77-89         |
|                    | Sunday (0700-0800)   | 65           | <b>50</b>                   | 77-82         |
|                    | Sunday (0800-0900)   | 67           | <b>54</b>                   | 77-84         |
|                    | Sunday (0700-1400)   | 70           | <b>61</b>                   | 77-89         |
|                    | Sunday (1100-1400)   | 71           | <b>64</b>                   | 78-89         |

The above shows background sound levels to be relatively high over the weekend period due to road traffic movement along Gelderd Road (A62).

## Operational Noise Prediction

For site operational noise we have used ISO9613-2:2024 prediction modelling and CadnaA software for producing noise maps of the highest likely generated noise.

The methodology takes into account source position, distance, duration of activity in relation to site activities and the nearest NSR. The noise modelling includes the movement of HGVs, mobile plant and waste shredder operating inside the WTS at the same time. The prediction calculations therefore provide an indication of the highest likely noise level.

Noise levels from fixed and mobile plant operating at the development site are assessed against BS4142: 2014+A1:2019. The cumulative effect of all plant operating during the daytime, as indicated in Table 2. Refer to noise maps in Appendix 2.

**Table 2: Predicted Cumulative Noise Rating Level from General Activities on Site**

| Receptor Position<br>(Refer to Figure 1) | Period                                       | Activity                                                                  | Background sound level <sup>1</sup><br>LA90 (dB)<br>[Ambient LAeq dB] | Rating <sup>2&amp;3</sup><br>noise level<br>LAeq <sub>1hr</sub> (dB)    | Level Difference <sup>4</sup><br>dB(A) |
|------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------|
| <b>Bank Holiday Periods</b>              |                                              |                                                                           |                                                                       |                                                                         |                                        |
| R1. The Pheasant Public House            | 0700 to 1700<br>0700 to 0800<br>0800 to 0900 | HGV movement /mobile plant /bulking/ shredding & offload inside building. | 62-63 [70-71]<br>50-54 [65-67]<br>54 [67-68]                          | 50 <sup>1&amp;2</sup><br>50 <sup>1&amp;2</sup><br>50 <sup>1&amp;2</sup> | -13 to -12<br>0 to -4<br>-4            |
| R1. The Pheasant Public House            | 1100 to 1400                                 | HGV movement /mobile plant / glass loading or offloading inside building. | 64 [71]                                                               | 61 <sup>2</sup>                                                         | -3                                     |
| <b>Sunday Periods</b>                    |                                              |                                                                           |                                                                       |                                                                         |                                        |
| R1. The Pheasant Public House            | 0700 to 1400<br>0700 to 0800                 | HGV movement /mobile plant /bulking/ shredding & offload inside building. | 61 [70]<br>50 [65]                                                    | 50 <sup>2</sup><br>50 <sup>2</sup>                                      | -11<br>0                               |
| R1. The Pheasant Public House            | 1100 to 1400                                 | HGV movement /mobile plant / glass loading or offloading inside building. | 64 [71]                                                               | 61 <sup>2</sup>                                                         | -3                                     |

<sup>1</sup> Based on Saturday and Sunday baseline monitoring to represent typical Bank Holiday likely baseline levels.

<sup>2</sup>The rating level includes a +3dB penalty for noise character for robustness, which is not expected to be required.

<sup>3</sup>The height at NSR taken as 1.5m above ground for daytime period 0700-1700 hours.

<sup>4</sup>Level difference relates to predicted rating noise or noise contribution in column 5 compared with background sound levels in column 4.

The above tables show the predicted highest likely noise levels from site operation during a Bank Holiday and Sunday period, which would occur during the daytime.

The results show no exceedance of representative background sound level (which includes a +3dB penalty applied to the rating level for noise character, which is not expected to be required) based on the highest likely site noise contribution. According to BS4142: 2014+A1:2019 This represents a **low impact** according to BS4142 assessment methodology.

We have used empirical data of the fixed and mobile plant to be used to maintain the accuracy of the calculations at the nearest property boundary locations during site operations.

## Conclusion

The results of analysis of the Proposed Development to operate during Bank Holiday and Sunday periods show that the Site would operate within representative background sound levels and impacts based on the highest likely predicted noise levels would produce a **low impact** according to BS4142:2014+A1:2019.

The Site has been operating for over a year and a half and there have been no complaints received by Veolia regarding noise.

Even when allowing for a 3dB noise character penalty, which is not expected to be required, the Site operating noise levels would produce a **low impact**.

In terms of HGV movement, the Site operates a one-way system through the facility with the peak would generally occur between 1100 to 1300 hours when background sound levels are higher.

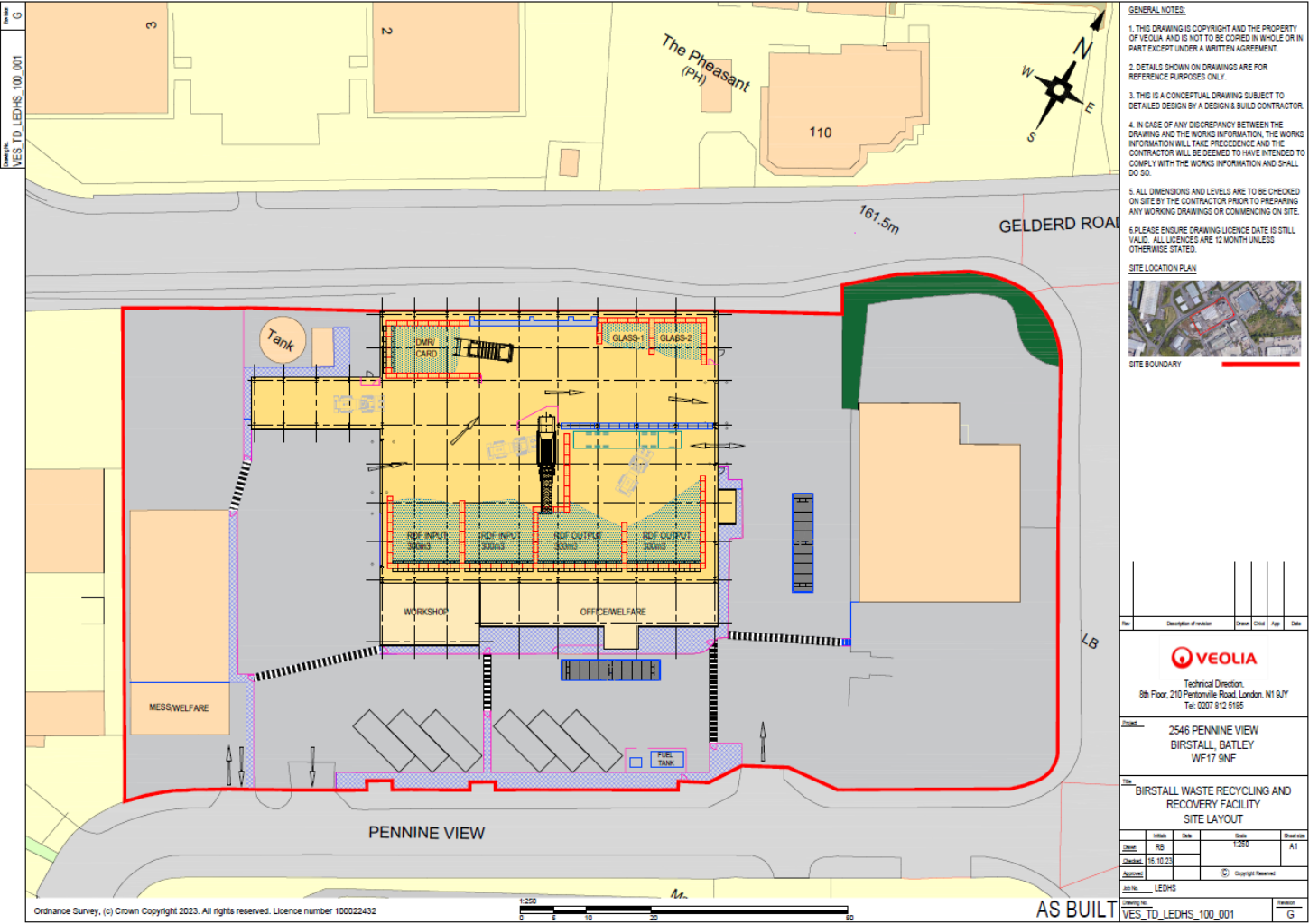
All existing noise mitigation measures and site management controls would be retained.

Based on the above results, the Site would be able to operate during Bank Holiday and Sunday periods without any noise issues and therefore there is no reason for refusal of the application on grounds of noise.

**Figure 1: Site Location & Baseline Sound Monitoring Location**



Figure 2: Site Layout



# Appendix 1

## Baseline Sound Survey Results

### Noise Survey Results

Date: Saturday 20th January 2024

TABLE 1

Location: Pennine View, Birstall, Batley

Client: Veolia ES

Project: Waste Transfer Station

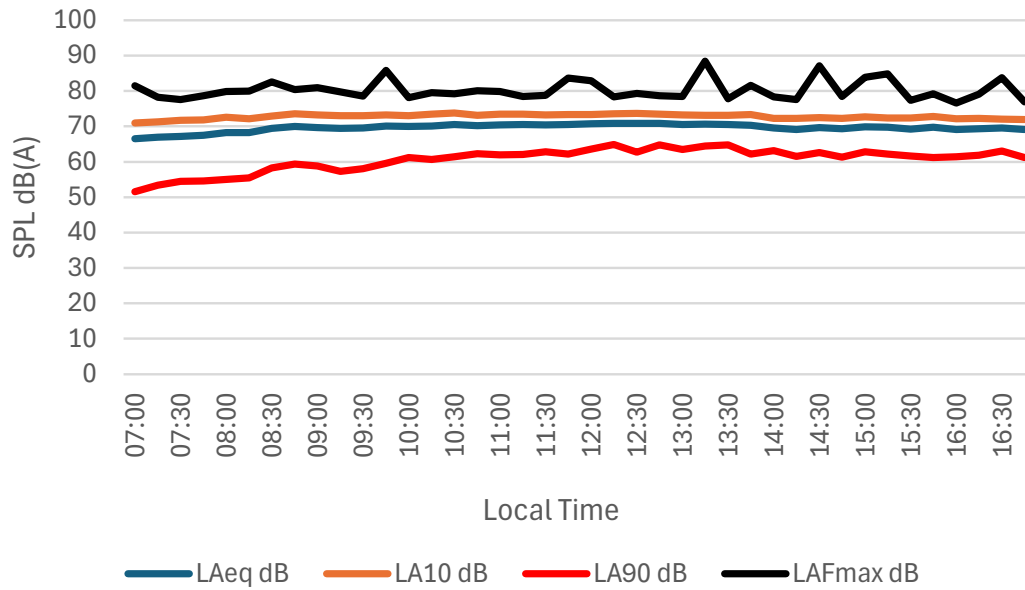
Data: **Baseline Sound Survey: Position A - Front of Offices (5m Pennine View)**

Instrumentation: Cirrus 171A Real Time Analyser (G066350)

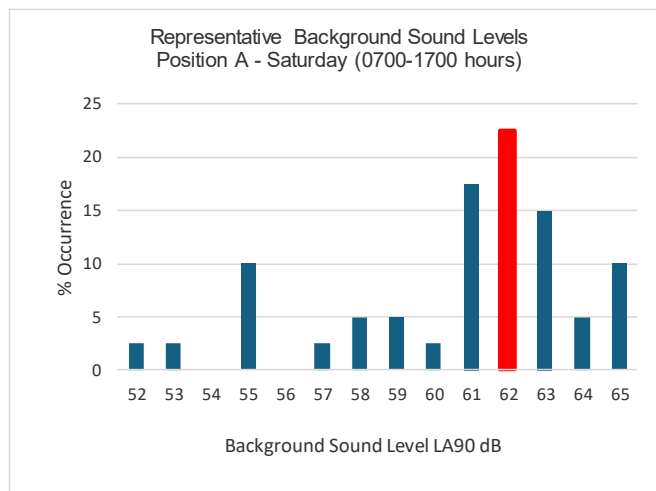
Calibration: 94dB

| Start Time        | Run Time (mins.) | LAeq (dB) | LA10 (dB) | LA90 (dB) | LAmx (dB) | Observations             |
|-------------------|------------------|-----------|-----------|-----------|-----------|--------------------------|
| 07:00             | 15:00            | 66.5      | 71        | 51.5      | 81.5      | Local road traffic noise |
| 07:15             | 15:00            | 66.9      | 71.3      | 53.4      | 78.2      |                          |
| 07:30             | 15:00            | 67.2      | 71.7      | 54.5      | 77.6      |                          |
| 07:45             | 15:00            | 67.5      | 71.8      | 54.6      | 78.7      |                          |
| 08:00             | 15:00            | 68.3      | 72.6      | 55.0      | 79.9      |                          |
| 08:15             | 15:00            | 68.3      | 72.2      | 55.4      | 80        |                          |
| 08:30             | 15:00            | 69.4      | 72.9      | 58.3      | 82.6      |                          |
| 08:45             | 15:00            | 70        | 73.6      | 59.3      | 80.4      |                          |
| 09:00             | 15:00            | 69.7      | 73.2      | 58.8      | 80.9      |                          |
| 09:15             | 15:00            | 69.4      | 73        | 57.3      | 79.8      |                          |
| 09:30             | 15:00            | 69.5      | 73        | 58.0      | 78.6      |                          |
| 09:45             | 15:00            | 70.1      | 73.2      | 59.6      | 85.8      |                          |
| 10:00             | 15:00            | 70        | 73        | 61.2      | 78.1      |                          |
| 10:15             | 15:00            | 70.1      | 73.5      | 60.6      | 79.5      |                          |
| 10:30             | 15:00            | 70.5      | 73.8      | 61.4      | 79.2      |                          |
| 10:45             | 15:00            | 70.2      | 73.1      | 62.3      | 80.1      |                          |
| 11:00             | 15:00            | 70.4      | 73.5      | 62.0      | 79.9      |                          |
| 11:15             | 15:00            | 70.5      | 73.5      | 62.1      | 78.5      |                          |
| 11:30             | 15:00            | 70.4      | 73.2      | 62.8      | 78.8      |                          |
| 11:45             | 15:00            | 70.5      | 73.4      | 62.2      | 83.6      |                          |
| 12:00             | 15:00            | 70.7      | 73.3      | 63.6      | 82.9      |                          |
| 12:15             | 15:00            | 70.9      | 73.6      | 64.9      | 78.3      |                          |
| 12:30             | 15:00            | 70.8      | 73.7      | 62.7      | 79.3      |                          |
| 12:45             | 15:00            | 70.8      | 73.5      | 64.8      | 78.7      |                          |
| 13:00             | 15:00            | 70.5      | 73.2      | 63.5      | 78.5      |                          |
| 13:15             | 15:00            | 70.6      | 73.1      | 64.5      | 88.4      |                          |
| 13:30             | 15:00            | 70.5      | 73.1      | 64.8      | 77.8      |                          |
| 13:45             | 15:00            | 70.3      | 73.3      | 62.2      | 81.6      |                          |
| 14:00             | 15:00            | 69.5      | 72.3      | 63.2      | 78.3      |                          |
| 14:15             | 15:00            | 69.1      | 72.3      | 61.5      | 77.6      |                          |
| 14:30             | 15:00            | 69.7      | 72.5      | 62.6      | 87.1      |                          |
| 14:45             | 15:00            | 69.3      | 72.3      | 61.3      | 78.5      |                          |
| 15:00             | 15:00            | 69.9      | 72.7      | 62.8      | 83.9      |                          |
| 15:15             | 15:00            | 69.8      | 72.4      | 62.2      | 84.9      |                          |
| 15:30             | 15:00            | 69.2      | 72.4      | 61.6      | 77.4      |                          |
| 15:45             | 15:00            | 69.8      | 72.8      | 61.2      | 79.2      |                          |
| 16:00             | 15:00            | 69.1      | 72.1      | 61.4      | 76.6      |                          |
| 16:15             | 15:00            | 69.3      | 72.3      | 61.9      | 79.1      |                          |
| 16:30             | 15:00            | 69.6      | 72        | 63        | 83.8      |                          |
| 16:45             | 15:00            | 69.1      | 71.9      | 61.2      | 76.9      |                          |
| Average 0700-1700 |                  | 69.7      | 72.8      | 61.5      | 77-88     |                          |
| Average 0700-0800 |                  | 67.0      | 71.4      | 53.6      | 78-82     |                          |
| Average 0800-0900 |                  | 67.5      | 71.8      | 54.4      | 80-83     |                          |

### Background Sound Survey: Position A - Saturday 20th January 2024



| LA90 | % Occurrence |
|------|--------------|
| 52   | 2.5          |
| 53   | 2.5          |
| 54   | 0            |
| 55   | 10           |
| 56   | 0            |
| 57   | 2.5          |
| 58   | 5.0          |
| 59   | 5.0          |
| 60   | 2.5          |
| 61   | 17.5         |
| 62   | 22.5         |
| 63   | 15           |
| 64   | 5            |
| 65   | 10           |

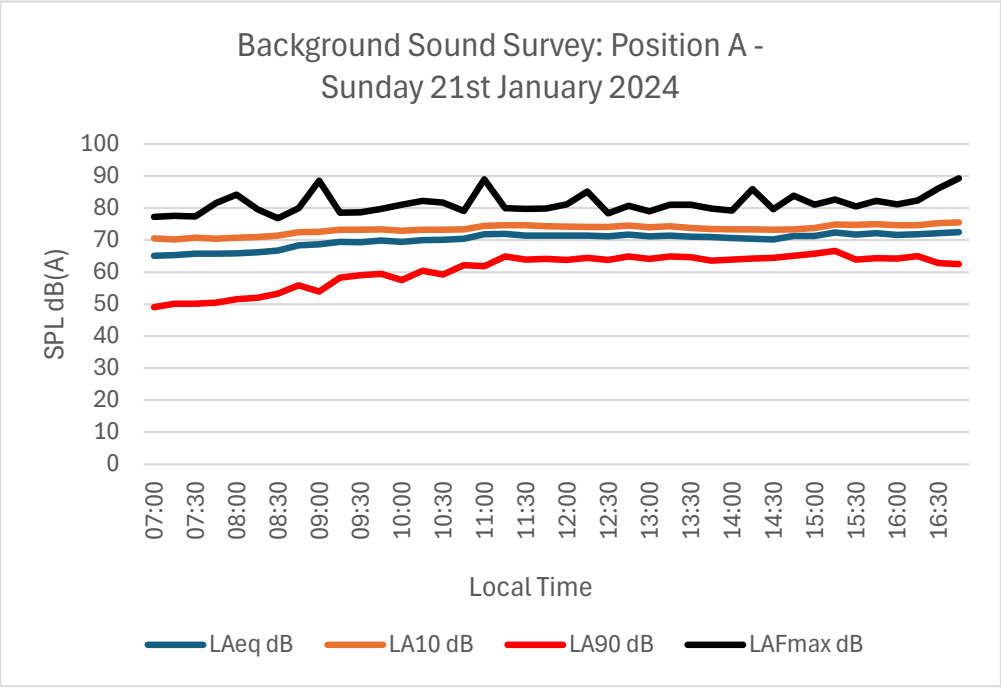


## Noise Survey Results

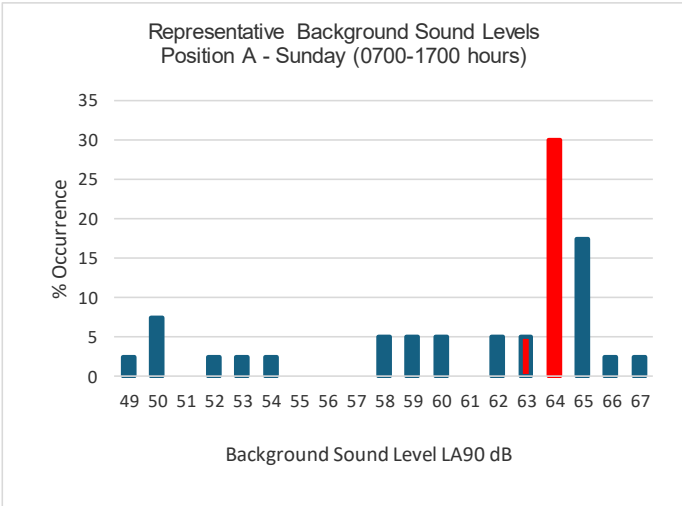
Date: Sunday 21st January 2024  
 Location: Pennine View, Birstall, Batley  
 Client: Veolia ES  
 Project: Waste Transfer Station  
 Data: Baseline Sound Survey: Position A - Front of Offices (5m Pennine View)  
 Instrumentation: Cirrus 171A Real Time Analyser (G066350)  
 Calibration: 94dB

TABLE 2

| Start Time        | Run Time (mins.) | LAeq (dB) | LA10 (dB) | LA90 (dB) | LAmx (dB) | Observations             |
|-------------------|------------------|-----------|-----------|-----------|-----------|--------------------------|
| 07:00             | 15:00            | 65.1      | 70.5      | 49        | 77.2      | Local road traffic noise |
| 07:15             | 15:00            | 65.3      | 70.2      | 50.1      | 77.6      |                          |
| 07:30             | 15:00            | 65.7      | 70.7      | 50.1      | 77.4      |                          |
| 07:45             | 15:00            | 65.7      | 70.4      | 50.5      | 81.6      |                          |
| 08:00             | 15:00            | 65.9      | 70.7      | 51.5      | 84.2      |                          |
| 08:15             | 15:00            | 66.2      | 71        | 52        | 79.6      |                          |
| 08:30             | 15:00            | 66.7      | 71.4      | 53.3      | 76.8      |                          |
| 08:45             | 15:00            | 68.4      | 72.5      | 55.9      | 80        |                          |
| 09:00             | 15:00            | 68.7      | 72.6      | 53.9      | 88.5      |                          |
| 09:15             | 15:00            | 69.4      | 73.2      | 58.3      | 78.6      |                          |
| 09:30             | 15:00            | 69.3      | 73.2      | 59        | 78.7      |                          |
| 09:45             | 15:00            | 69.9      | 73.3      | 59.5      | 79.7      |                          |
| 10:00             | 15:00            | 69.4      | 72.9      | 57.5      | 81        |                          |
| 10:15             | 15:00            | 70        | 73.2      | 60.4      | 82.2      |                          |
| 10:30             | 15:00            | 70.1      | 73.2      | 59.2      | 81.7      |                          |
| 10:45             | 15:00            | 70.4      | 73.4      | 62.2      | 79.1      |                          |
| 11:00             | 15:00            | 71.8      | 74.4      | 61.9      | 89        |                          |
| 11:15             | 15:00            | 71.9      | 74.7      | 64.9      | 80        |                          |
| 11:30             | 15:00            | 71.4      | 74.6      | 63.9      | 79.7      |                          |
| 11:45             | 15:00            | 71.4      | 74.3      | 64.1      | 79.9      |                          |
| 12:00             | 15:00            | 71.4      | 74.2      | 63.8      | 81.2      |                          |
| 12:15             | 15:00            | 71.4      | 74.1      | 64.5      | 85.2      |                          |
| 12:30             | 15:00            | 71.2      | 74.1      | 63.8      | 78.3      |                          |
| 12:45             | 15:00            | 71.7      | 74.5      | 64.9      | 80.7      |                          |
| 13:00             | 15:00            | 71.2      | 74        | 64.1      | 79        |                          |
| 13:15             | 15:00            | 71.4      | 74.3      | 64.9      | 81.1      |                          |
| 13:30             | 15:00            | 71.1      | 73.8      | 64.7      | 81.1      |                          |
| 13:45             | 15:00            | 71        | 73.5      | 63.6      | 79.9      |                          |
| 14:00             | 15:00            | 70.6      | 73.4      | 63.9      | 79.2      |                          |
| 14:15             | 15:00            | 70.4      | 73.3      | 64.2      | 85.9      |                          |
| 14:30             | 15:00            | 70.2      | 73.2      | 64.4      | 79.6      |                          |
| 14:45             | 15:00            | 71.3      | 73.4      | 65.1      | 83.9      |                          |
| 15:00             | 15:00            | 71.3      | 73.8      | 65.7      | 81.1      |                          |
| 15:15             | 15:00            | 72.4      | 74.9      | 66.6      | 82.7      |                          |
| 15:30             | 15:00            | 71.7      | 74.8      | 63.9      | 80.5      |                          |
| 15:45             | 15:00            | 72.1      | 75        | 64.3      | 82.2      |                          |
| 16:00             | 15:00            | 71.6      | 74.6      | 64.2      | 81.2      |                          |
| 16:15             | 15:00            | 71.8      | 74.7      | 65        | 82.4      |                          |
| 16:30             | 15:00            | 72.1      | 75.3      | 62.8      | 86.1      |                          |
| 16:45             | 15:00            | 72.5      | 75.5      | 62.5      | 89.3      |                          |
| Average 0700-1700 |                  | 70.4      | 73.5      | 62.6      | 77-89     |                          |
| Average 0700-0800 |                  | 65.4      | 70.4      | 49.9      | 77-82     |                          |
| Average 0800-0900 |                  | 66.9      | 71.4      | 53.5      | 77-84     |                          |
| Average 1100-1400 |                  | 71.4      | 74.2      | 64.1      | 78-89     |                          |
| Average 0700-1400 |                  | 69.9      | 73.1      | 61.4      | 77-89     |                          |



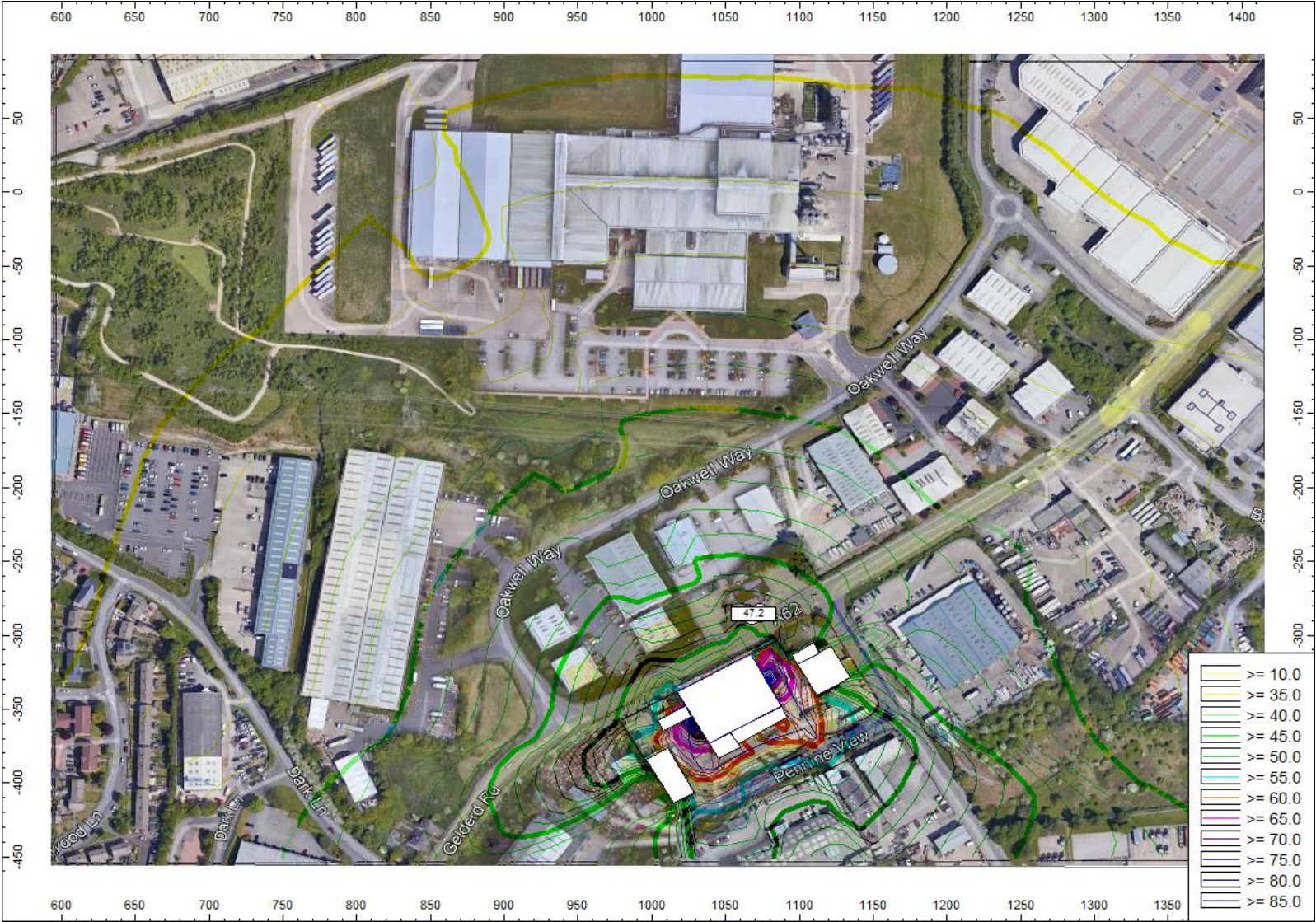
| LA90      | % Occurrence |
|-----------|--------------|
| 49        | 2.5          |
| 50        | 7.5          |
| 51        | 0            |
| 52        | 2.5          |
| 53        | 2.5          |
| 54        | 2.5          |
| 55        | 0.0          |
| 56        | 2.5          |
| 57        | 0            |
| 58        | 5            |
| 59        | 5            |
| 60        | 5            |
| 61        | 0            |
| 62        | 5            |
| <b>63</b> | <b>5</b>     |
| <b>64</b> | <b>30</b>    |
| 65        | 17.5         |
| 66        | 2.5          |
| 67        | 2.5          |



## **Appendix 2**

### **Noise Mapping Results**

Noise Map 1: Bank Holiday & Sunday Operations (HGV movement and offload inside, mobile plant, shredding and bulking)  
0700-1700 hours



**Noise Map 2: Glass Loading onto Bulker Vehicle within WTS & WTS Operations**

