



|                       |                               |              |            |
|-----------------------|-------------------------------|--------------|------------|
| <b>Project:</b>       | 76 Christchurch Road, Reading |              |            |
| <b>Client:</b>        | RYTDAK LTD                    |              |            |
| <b>Report Title:</b>  | Environmental Noise Survey    |              |            |
| <b>Author:</b>        | P J Shortt MSc MIOA           | <b>Date:</b> | 21/06/2019 |
| <b>Checked:</b>       | J A Gillott MIOA              | <b>Date:</b> | 21/06/2019 |
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Opinions included herein are based on information gathered during the study and from our experience. If additional information becomes available which may affect our comments, conclusions or recommendations, Paragon Acoustic Consultants Ltd reserves the right to review the information, reassess any new potential concerns and modify our opinions accordingly.

## Contents

|                                        |                                                    |           |
|----------------------------------------|----------------------------------------------------|-----------|
| <b>1</b>                               | <b>Introduction .....</b>                          | <b>1</b>  |
| <b>2</b>                               | <b>Site Description .....</b>                      | <b>2</b>  |
| <b>3</b>                               | <b>Environmental Noise Surveys .....</b>           | <b>4</b>  |
| 3.1                                    | Method .....                                       | 4         |
| 3.2                                    | Results .....                                      | 6         |
| <b>4</b>                               | <b>Evaluation of External Noise Criteria .....</b> | <b>9</b>  |
| 4.1                                    | Noise Sensitive Properties .....                   | 9         |
|                                        | Local Authority advice .....                       | 9         |
| 4.2                                    | BS 4142:2014 .....                                 | 10        |
| 4.3                                    | Commercial Properties .....                        | 12        |
| 4.3                                    | External Noise Criteria .....                      | 14        |
| <b>5</b>                               | <b>Conclusions .....</b>                           | <b>15</b> |
| <b>Appendix A: Measurement Results</b> |                                                    |           |

## List of Tables

|                                                                                               |    |
|-----------------------------------------------------------------------------------------------|----|
| Table 1: Equipment Details .....                                                              | 5  |
| Table 2: Typical weather data during survey period .....                                      | 5  |
| Table 3: Typical noise levels in non-domestic buildings (source: BS8233:2014, Table 6).....   | 12 |
| Table 4: Indoor ambient noise levels in unoccupied spaces (source: BS8233:2014, Table 2)..... | 12 |
| Table 5: DEFRA NANR16 Summary of findings .....                                               | 13 |
| Table 6: Limiting noise criteria applicable at affected premises .....                        | 14 |

## List of Figures

|                                                                              |   |
|------------------------------------------------------------------------------|---|
| Figure 1: Site Location .....                                                | 2 |
| Figure 2: Internal layout of scheme .....                                    | 3 |
| Figure 3: Noise monitoring positions .....                                   | 4 |
| Figure 4: Measurement results at MP1 .....                                   | 6 |
| Figure 5: Measurement results at MP2.....                                    | 6 |
| Figure 6: Distribution of day background sound levels at position MP1 .....  | 7 |
| Figure 7: Distribution of night background sound levels at position MP1..... | 7 |
| Figure 8: Distribution of day background sound levels at position MP2 .....  | 8 |
| Figure 9: Distribution of night background sound levels at position MP2..... | 8 |

# 1 Introduction

The existing building occupying 76 Christchurch Road, Reading is undergoing redevelopment to provide a new A5 use at ground floor level. Paragon Acoustic Consultants Ltd has been commissioned by RYTDAK LTD to conduct an environmental noise survey to obtain statistical noise data to characterise the existing local background and ambient noise climate at the site and to derive noise limits to atmosphere based on Local Authority Noise Policy and other relevant guideline documents. This information shall be used at the appropriate stage of the project to determine if the proposed new mechanical plant selections will meet with the derived noise limits.

If deemed necessary, effective mitigation measures shall be introduced as necessary to achieve the Local Authority Noise Policy requirements.

The operational period of the proposed mechanical plant serving the A5 use is understood to be restricted to daytime hours only, covering the period 07:00 hours to 23:00 hours inclusive.

## 2 Site Description

The site under consideration is situated at 76 Christchurch Road, Reading, and is to comprise conversion of a former bank to provide a new A5 use at ground floor level with residential accommodation above.

The site lies in area that contains a mix of residential dwellings, commercial premises and retail outlets.

The site is bounded to the north by Christchurch Road a moderately trafficked two-way road that has a junction with the B3031 approximately 600m to the west.

The area immediately to the south of the site is largely given over to car parking associated with the commercial premises having their frontages on Christchurch Road. A number of items of third party mechanical plant were observed in this aspect.

The site location and internal layout of the proposed scheme is illustrated in Figures 1 and 2 below.

Figure 1: Site Location

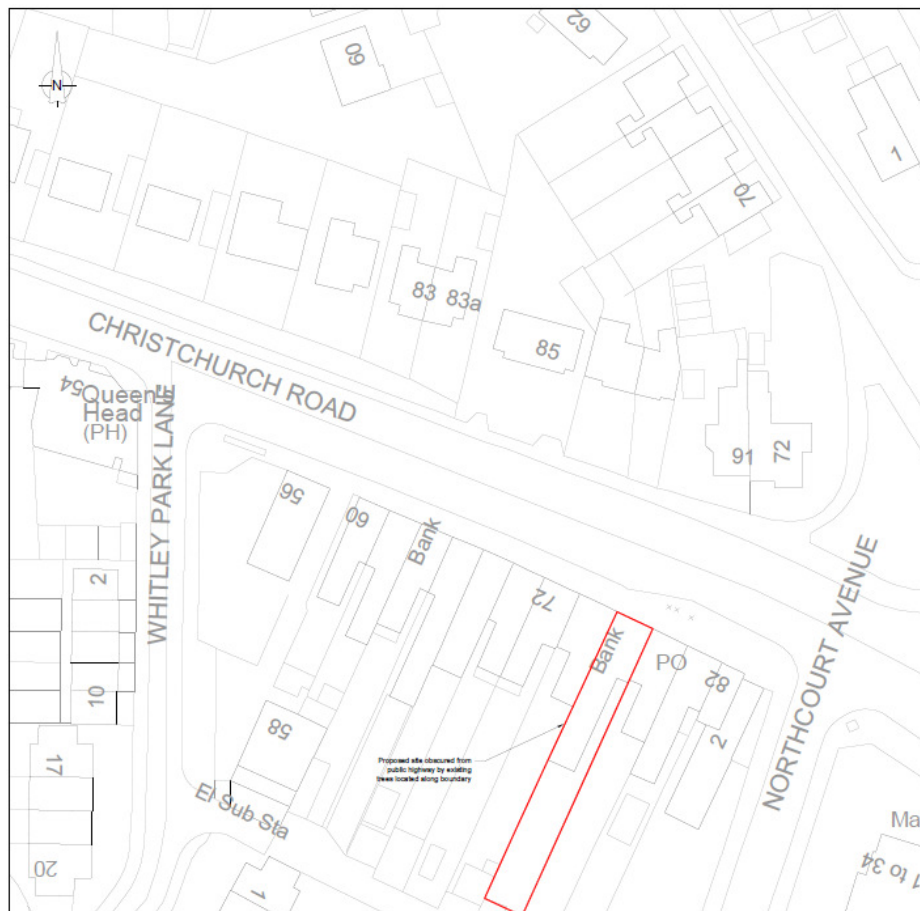


Figure 2: Internal layout of scheme



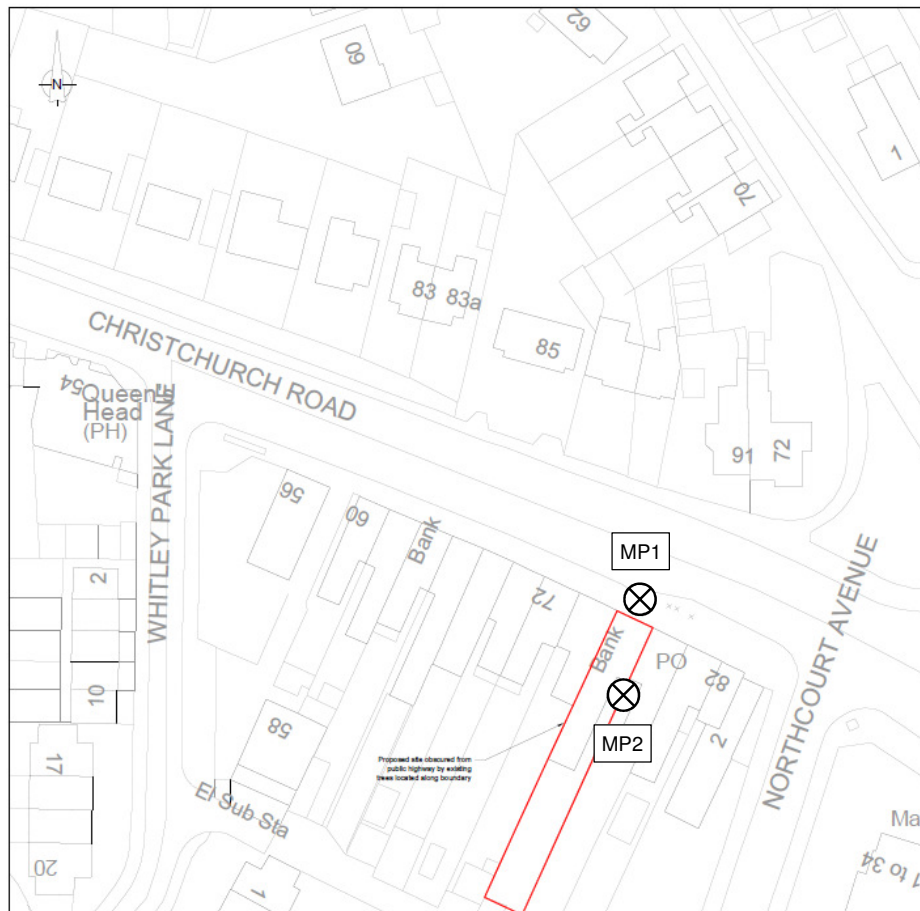
## 3 Environmental Noise Surveys

### 3.1 Method

As noted at Section 1, the proposed operational period of mechanical services equipment serving the A5 use will be daytime hours. Noise monitoring was undertaken on 17 and 18 June 2019 at the location described below and illustrated by Figure 3.

- MP1: Front elevation, second floor level, of the existing 76 Christchurch Road building;
- MP2: Rear elevation, second floor level, of the existing 76 Christchurch Road building;

Figure 3: Noise monitoring positions



At each measurement position, the microphone was mounted on an extension such that the diaphragm was of the order 1m from facade.

The measurements were obtained using the instrumentation scheduled below, which complies with the Type 1 specification of IEC 60651 and IEC 60804, Class 1 specification of IEC 61260 and IEC 61672 and Class 1 of IEC 60942 as applicable.

Field calibration checks were made at the beginning and end of each measurement session. No significant drift was encountered, calibration level with matched calibrator 113.8 dB(A) ( $\pm 0.2\text{dB}$  @ 1000 Hz  $\pm 0.2\%$ ), observed drift 0.1 dB.

Table 1: Equipment Details

| Equipment Description and Serial Number | Manufacturer | Model Number | Calibration certificate number | Calibration expiry date |
|-----------------------------------------|--------------|--------------|--------------------------------|-------------------------|
| Sound level analyser, s/n 31663         | Norsonic     | NOR 118      | U28129                         | 16/03/2020              |
| Microphone, s/n 65276                   | Norsonic     | NOR 1225     | U28129                         | 16/03/2020              |
| Acoustic Calibrator, s/n 31313          | Norsonic     | NOR 1251     | U28128                         | 16/03/2020              |
| Preamplifier, s/n 30342                 | Norsonic     | NOR 1206     | U28128                         | 16/03/2020              |
| Sound level analyser, s/n 31990         | Norsonic     | NOR 118      | U29388                         | 24/08/2020              |
| Microphone, s/n 29831                   | Norsonic     | NOR 1225     | U29387                         | 24/08/2020              |
| Acoustic Calibrator, s/n 30867          | Norsonic     | NOR 1251     | U29386                         | 24/08/2020              |
| Preamplifier, s/n 26695                 | Norsonic     | NOR 1201     | U29388                         | 24/08/2020              |

Various statistical broad-band and spectral sound pressure level measurements were obtained during the survey. A measurement time interval  $T_m = 5$  minutes was used for sampling.

The quantities recorded included:

- $L_{Aeq,T}$ : the equivalent continuous A-weighted sound pressure level over the measurement period, T;
- $L_{AFmax}$ : the maximum A-weighted sound pressure level for the measurement period;
- $L_{AF90\%,T}$ : the A-weighted sound pressure level exceeded for 90% of the measurement period, T.

Weather conditions<sup>1</sup> during the survey were typically as per Table 2 below.

Table 2: Typical weather data during survey period

| Day and Date | Temperature |      | Average Humidity | Average Pressure | Average wind speed   | Precip. |
|--------------|-------------|------|------------------|------------------|----------------------|---------|
|              | Min         | Max  |                  |                  |                      |         |
| 17 June 2019 | 12°C        | 22°C | 67%              | 102 kPa          | 1.8 ms <sup>-1</sup> | 0.0 mm  |
| 18 June 2019 | 11°C        | 19°C | 81%              | 102 kPa          | 0.3 ms <sup>-1</sup> | 1.4 mm  |

<sup>1</sup> Weather station Redaing114

## 3.2 Results

The measured survey data is reproduced in Appendix A and illustrated below.

Figure 4: Measurement results at MP1

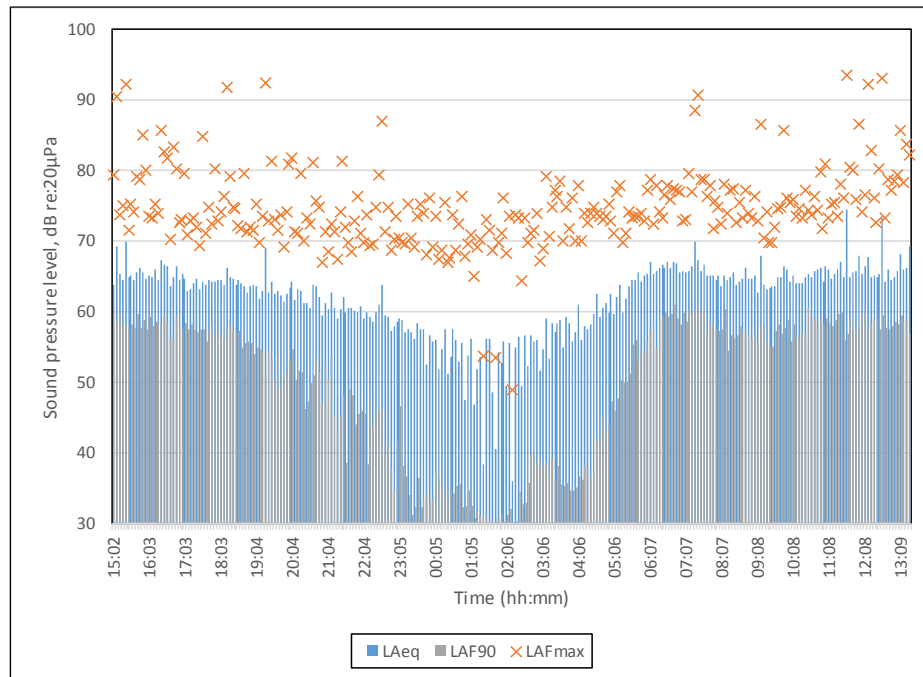
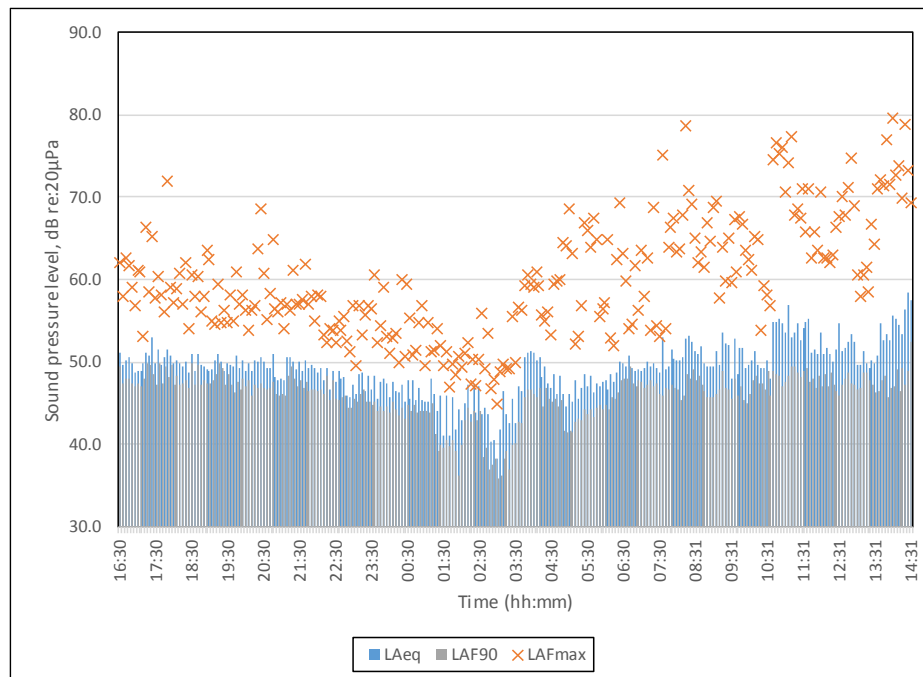


Figure 5: Measurement results at MP2



The background sound level data has been processed to determine typical day and night values as per Figures 6 to 9 below.

Figure 6: Distribution of day background sound levels at position MP1

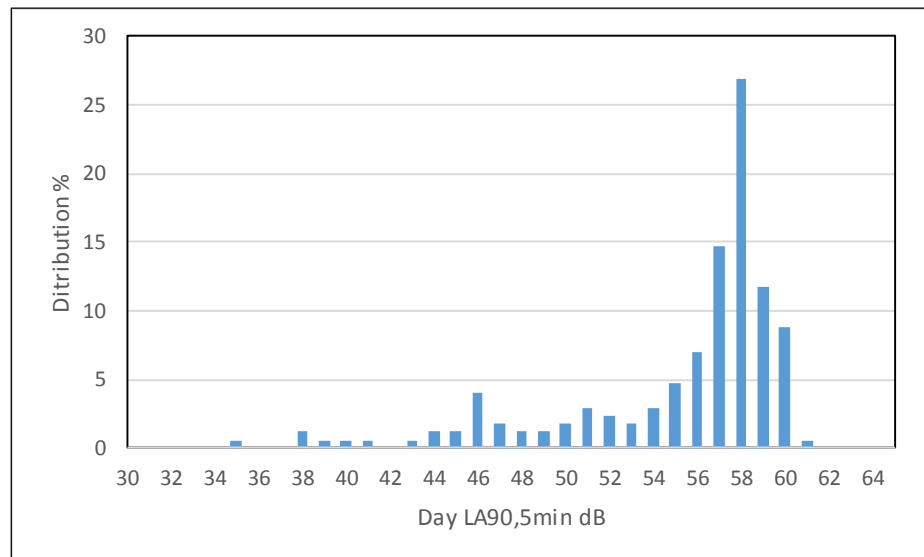


Figure 7: Distribution of night background sound levels at position MP1

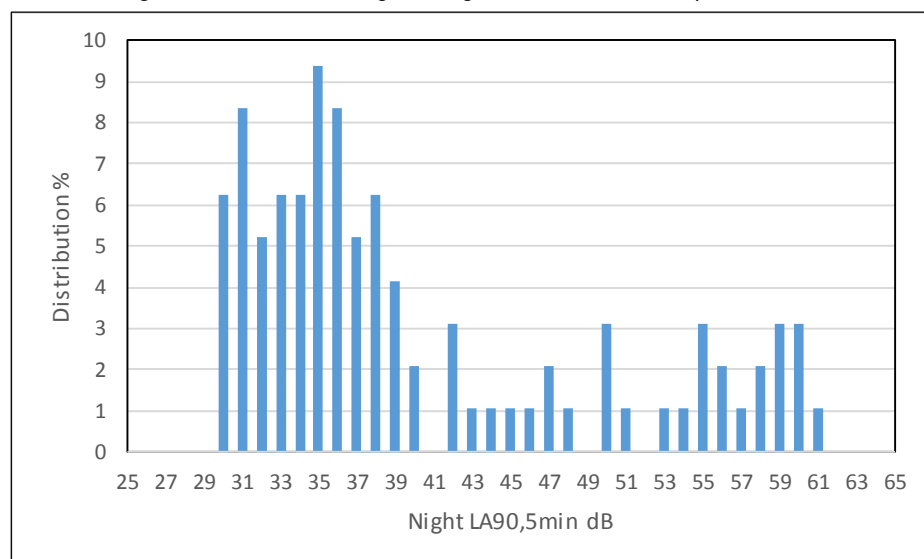


Figure 8: Distribution of day background sound levels at position MP2

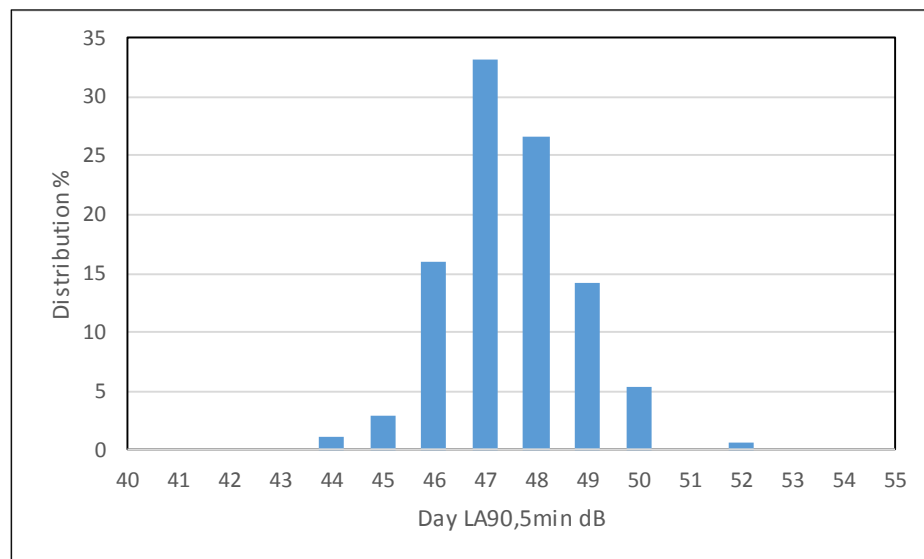
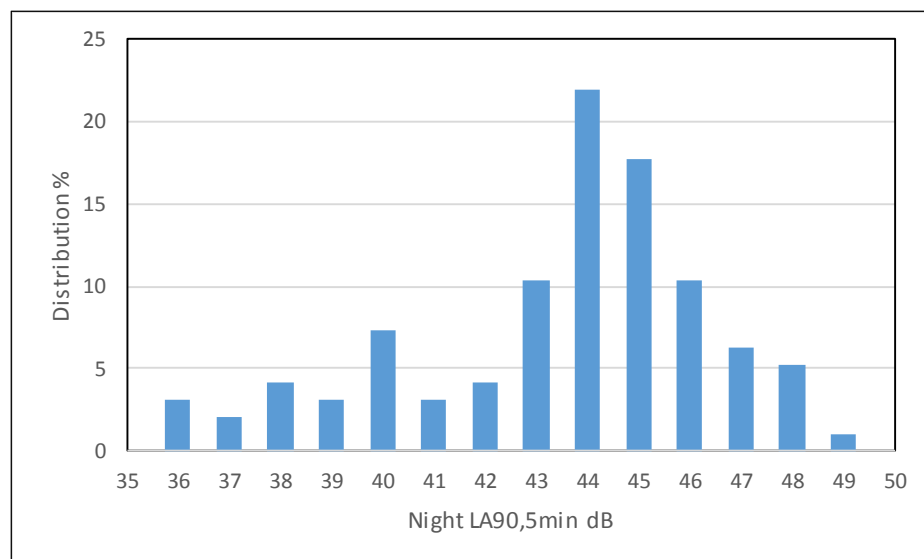


Figure 9: Distribution of night background sound levels at position MP2



From Figures 6 to 9, the following modal  $L_{AF90}$  values result:

- MP1: day  $L_{AF90}$  = 58 dB, night  $L_{AF90}$  = 35 dB;
- MP2: day  $L_{AF90}$  = 47 dB, night  $L_{AF90}$  = 44 dB.

## 4 Evaluation of External Noise Criteria

The local vicinity contains properties of mixed usage, which must be given due consideration in terms of acceptable levels of noise exposure from the new plant.

### 4.1 Noise Sensitive Properties

#### Local Authority advice

This practice has been informed that Reading Borough Council (RBC) has requested the following:

*Item 26 – Vent/Flue & ventilation details*

*The proposal includes an A5 (takeaway) use, and should be accompanied by details of the vent/flue, including location, and should be shown on the proposal plans.*

In the absence of Local Authority advice regarding any individual requirements, this practice has considered the RBC paper headed “Local Plan Background Paper” “Information to support the Submission Draft Reading Borough Local Plan” dated March 2018. This paper includes the following details:

#### **4.26 Noise Generating Equipment (EN17)**

##### **4.26.1 Key Considerations**

- *The NPPF states that the planning system should prevent both new and existing development from contributing to or being put at unacceptable risk from, or being adversely affected by unacceptable levels of noise pollution (paragraph 109). Paragraph 123 further states that planning policies should avoid noise from giving rise to significant adverse impacts on health and quality of life as a result of new development.*

- *A Noise Policy Statement for England was produced in 2010 by DEFRA, which contains the following vision:*

*“Promote good health and a good quality of life through the effective management of noise within the context of Government policy on sustainable development.”*

*The NPSE aims are as follows:*

- *avoid significant adverse impacts on health and quality of life;*
- *mitigate and minimise adverse impacts on health and quality of life; and*
- *where possible, contribute to the improvement of health and quality of life.*

- *The Council receives numerous planning applications for the introduction of new noise generating industrial and commercial equipment such as air conditioning; refrigeration plant and kitchen extraction. This equipment is often installed in close proximity to residential properties and has the potential to cause significant annoyance and/or sleep disturbance to residents or other businesses, and have a negative impact on residential amenity.*

- *Planning applications for noisy mechanical plant are already required to be accompanied by a noise assessment which compares the noise level produced by the equipment against the existing background noise level using the British Standard ‘Methods for rating and assessing industrial and*

commercial sound' (BS4142:2014). Whilst the BS4142:2014 method gives some guidance on assessing whether the level of noise may have an adverse impact, its recent update has made this guidance more ambiguous and crucially it does not set a noise limit for new plant.

- The Environmental Protection team for some years has required that the noise level from new mechanical plant be at least 10 dB below the background noise level in order to prevent 'background creep' (see draft policy for an explanation). However, this does not have the weight of policy behind it.

- Although general principles for noise were set out in policy CS34 of the Core Strategy (PP004), no specific noise levels are referenced in existing policy.

#### 4.26.2 Policy Options

The following options have been considered and have been subject to Sustainability Appraisal. Where rejected, the reasons are summarised below.

- **EN17(i) No policy – REJECTED**

Whilst the Council would continue to usually seek the level set out in the proposed policy, without the benefit of policy it carries reduced weight. As such, it could lead to developments that have a detrimental effect on the quality of life and health of neighbours.

- **EN17(ii) New policy limiting noise level to at least 10dBA below the existing background level – PROPOSED OPTION**

This option would be a new policy, giving clarity to developers and applicants on the maximum level of background noise at the nearest sensitive receptor that will be acceptable. It will ensure that equipment does not have a detrimental effect on the health and quality of life of neighbours.

Based on the details of this document it does appear as though RBC will be continuing to require that the noise level from new mechanical plant be at least 10 dB below the background noise level. As such, the assessment shall consider this limit.

## 4.2 BS 4142:2014

BS 4142:2014: "Methods for rating and assessing industrial and commercial sound" describes methods for rating and assessing sound of an industrial and/or commercial nature, which includes sound from fixed installations which comprise mechanical and electrical plant and equipment.

The methods described in the standard use outdoor sound levels to assess the likely effects of sound on people who might be inside or outside a dwelling or premises used for residential purposes upon which sound is incident. The standard provides a method for correcting the specific sound levels so as to account for acoustic features that are present at the assessment location (scaled corrections up to +6 dB for tones and up to +9 dB for impulses, depending upon the prominence of the tones or impulses, as well as +3 dB corrections for other sound characteristics).

Where characteristics likely to affect perception and response are present in the specific sound within the same reference period; then the applicable corrections ought normally to be added arithmetically. However, if any single feature is dominant, to the exclusion of the others, then it may be appropriate to apply a reduced, or even zero, correction to the minor characteristics.

Whereas the 1997 edition of BS4142 assess likelihood of complaints, the 2014 edition was revised to use assessment of adverse impacts. This change was introduced because the likelihood of complaints is not a particularly appropriate benchmark, especially when it is used in a planning context, and it also aligns the standard more closely with the type of language and benchmarks that are suitable for the assessment of sound at the planning stage, e.g., for new proposed development.

The 2014 edition of the standard continues to use the difference between the rating level and the background sound level:

- a) Typically, the greater this difference, the greater the magnitude of the impact.
- b) A difference of around +10 dB or more is likely to be an indication of a significant adverse impact, depending on the context.
- c) A difference of around +5 dB is likely to be an indication of an adverse impact, depending on the context.
- d) The lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context."

In line with the Local Authority likely requirement, it is proposed to consider a target noise level whereby the rating level of the sound from the proposed new plant shall be at least 10 dB below the background noise level.

### 4.3 Commercial Properties

It is considered appropriate to assess noise emissions to commercial properties in line with the guidelines provided in BS 8233:2014.

Table 3: Typical noise levels in non-domestic buildings (source: BS8233:2014, Table 6)

| Activity                               | Location                                              | Design range<br>dB $L_{Aeq, T}$ |
|----------------------------------------|-------------------------------------------------------|---------------------------------|
| Speech or telephone communications     | Department store<br>Cafeteria, canteen, kitchen       | 50 – 55                         |
|                                        | Concourse<br>Corridor, circulation space              | 45 – 55                         |
| Study and work requiring concentration | Library, gallery, museum                              | 40 – 50                         |
|                                        | Staff/meeting room, training room                     | 35 – 45                         |
|                                        | Executive office                                      | 35 – 40                         |
| Listening                              | Place of worship, counselling, meditation, relaxation | 30 – 35                         |

Table 4: Indoor ambient noise levels in unoccupied spaces (source: BS8233:2014, Table 2)

| Objective                                                  | Typical situations        | Design range $L_{Aeq, T}$<br>dB |
|------------------------------------------------------------|---------------------------|---------------------------------|
| Typical noise levels for acoustic privacy in shared spaces | Restaurant                | 40 – 55                         |
|                                                            | Open plan office          | 45 – 50                         |
|                                                            | Night club, public house  | 40 – 45                         |
|                                                            | Ballroom, banqueting hall | 35 – 40                         |
|                                                            | Living room               | 35 – 40                         |

NOTE See Noise control in building services [28] and BS EN ISO 3382.

In view of the details presented above it is considered reasonable to adopt an indoor noise criterion of 45 dB  $L_{Aeq, T}$  for commercial spaces in the proximity of the site.

It is also reasonable to consider a noise criterion external to commercial property windows that takes account of the internal design range, plus the loss expected through an openable window. In a research study conducted for DEFRA NANR116: “Open/Closed Window Research”, numerous references are provided which quantify losses through open and partially open windows, as below.

The findings of the study are referenced in this report to substantiate the use of a 13 dB(A) loss through a partially open window. This leads to a limiting noise criterion of 58 dB  $L_{Aeq, T}$  at a position 1 metre outside the window of the nearest exposed 3<sup>rd</sup> party commercial property.

Table 5: DEFRA NANR16 Summary of findings

| Information Source                                              | Summary of Findings                                                                                                                                                                                                         |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PPG 24 (1994) <sup>[2]</sup>                                    | A reduction of 13 dB(A) from the facade level is assumed for an open window                                                                                                                                                 |
| WHO (1999) <sup>[4]</sup>                                       | A reduction of 15 dB from the facade level is assumed for a partially open window. (no reference)                                                                                                                           |
| BS 8233 (1999) <sup>[5]</sup>                                   | Windows providing rapid ventilation and summer cooling are assumed to provide 10 - 15 dB attenuation (no specific reference)                                                                                                |
| BRE Digest 338 (1988) <sup>[6]</sup>                            | A partly open window has an averaged level difference, $D_{1m^{100-3150}}$ of 15 dB                                                                                                                                         |
| DoE Design Bulletin 26 (1972) <sup>[7]</sup>                    | A reduction of 5 dB(A) with a window wide open                                                                                                                                                                              |
| Nelson - Transportation Noise (1987) <sup>[8]</sup>             | Sound insulation of an open single window is 5 – 15 dB. (theoretical)                                                                                                                                                       |
| Mackenzie & Williamson DoE Report (1972–73) <sup>[9],[10]</sup> | A vertical sliding sash window open 0.027 m <sup>2</sup> (summer night-time ventilation) and 0.36 m <sup>2</sup> (daytime summer ventilation) provided a sound level reduction of 16 and 11 dB(A) respectively. (Lab Study) |
| Kerry and Ford (1973 – 74) <sup>[11],[12]</sup>                 | A horizontal sliding sash window open 25 mm and 200 mm provided averaged sound reduction indices, $R_{av}$ of 14 and 9 dB respectively. (Field Study)                                                                       |
| Lawrence and Burgess (1982 – 83) <sup>[13],[14]</sup>           | A vertical sliding sash open 9% of the total façade provided a sound reduction index $R_w$ 10 dB. (Field study)                                                                                                             |
| Hopkins (2004) <sup>[15]</sup>                                  | Road traffic noise reductions through window openings resulted in reductions of between $D_{2m,n,T}$ 8 and 14 dB. (Field Study)                                                                                             |

Table 1.1 Summary of open-window acoustic transmission literature

### 4.3 External Noise Criteria

The derived external noise criteria which the new building services plant shall be required to achieve are shown below, having been derived from the measured modal background sound levels and policy requirements discussed above:

Table 6: Limiting noise criteria applicable at affected premises

| Plant Location           | Receptor                                                                                                                                                                                                                                                                                                         | Day<br>07:00-23:00<br>$L_{Aeq,(60\text{ min})}$ | Night<br>23:00-07:00<br>$L_{Aeq,(60\text{ min})}$ |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|
| Any Location on the site | Third party residential dwellings                                                                                                                                                                                                                                                                                | 37 dB <sup>[1] [2] [3]</sup>                    | 25 dB <sup>[1] [2] [3]</sup>                      |
| Any Location on the site | Third party commercial premises                                                                                                                                                                                                                                                                                  | 58 dB <sup>[3]</sup>                            |                                                   |
| Notes:                   |                                                                                                                                                                                                                                                                                                                  |                                                 |                                                   |
| [1]                      | <b>Penalty for tone(s)</b><br>+2 dB shall be applied for a tone that is just perceptible at the noise receptor; or<br>+4 dB shall be applied for a tone that is clearly perceptible at the noise receptor; or<br>+6 dB shall be applied for a tone that is highly perceptible at the noise receptor              |                                                 |                                                   |
| [2]                      | <b>Penalty for impulses</b><br>+3 dB shall be applied for an impulse that is just perceptible at the noise receptor; or<br>+6 dB shall be applied for an impulse that is clearly perceptible at the noise receptor; or<br>+9 dB shall be applied for an impulse that is highly perceptible at the noise receptor |                                                 |                                                   |
| [3]                      | The limiting noise levels are deemed to be considered at a position 1 metre outside the nearest affected premises                                                                                                                                                                                                |                                                 |                                                   |

## 5 Conclusions

A detailed environmental noise survey has been undertaken to determine the underlying ambient and background noise climate.

Appropriate external noise criteria have been identified on the basis of Local Authority noise policy, and other industry standards and references. The external noise criteria detailed herein will be used in the future selection of mechanical plant and any noise mitigation scheme necessary.

With due consideration to achieving compliance with these external noise criteria, future objections would not be expected in respect of noise emissions from any new fixed mechanical plant which may form part of the planning application.

## Appendix A: Measurement Results

### MP1

| File                           | Date                    | LAeq | LAFmax | LAF90 |
|--------------------------------|-------------------------|------|--------|-------|
| NOR118_7641850_190617_0002.NBF | (2019/06/17 15:02:59.00 | 63.9 | 79.4   | 57.9  |
| NOR118_7641850_190617_0003.NBF | (2019/06/17 15:08:00.00 | 69.3 | 90.4   | 58.6  |
| NOR118_7641850_190617_0004.NBF | (2019/06/17 15:13:02.00 | 65.3 | 73.7   | 59.8  |
| NOR118_7641850_190617_0005.NBF | (2019/06/17 15:18:03.00 | 64.4 | 75.1   | 58.4  |
| NOR118_7641850_190617_0006.NBF | (2019/06/17 15:23:05.00 | 70.0 | 92.3   | 57.9  |
| NOR118_7641850_190617_0007.NBF | (2019/06/17 15:28:06.00 | 64.8 | 71.5   | 57.6  |
| NOR118_7641850_190617_0008.NBF | (2019/06/17 15:33:07.00 | 65.1 | 75.2   | 58.1  |
| NOR118_7641850_190617_0009.NBF | (2019/06/17 15:38:09.00 | 64.5 | 74.1   | 57.7  |
| NOR118_7641850_190617_0010.NBF | (2019/06/17 15:43:10.00 | 65.6 | 79.1   | 59.6  |
| NOR118_7641850_190617_0011.NBF | (2019/06/17 15:48:11.00 | 66.1 | 78.8   | 57.7  |
| NOR118_7641850_190617_0012.NBF | (2019/06/17 15:53:12.00 | 65.5 | 85.1   | 58.9  |
| NOR118_7641850_190617_0013.NBF | (2019/06/17 15:58:14.00 | 64.6 | 80.0   | 57.5  |
| NOR118_7641850_190617_0014.NBF | (2019/06/17 16:03:15.00 | 65.1 | 73.4   | 59.2  |
| NOR118_7641850_190617_0015.NBF | (2019/06/17 16:08:17.00 | 64.9 | 73.3   | 57.9  |
| NOR118_7641850_190617_0016.NBF | (2019/06/17 16:13:18.00 | 65.9 | 75.3   | 58.5  |
| NOR118_7641850_190617_0017.NBF | (2019/06/17 16:18:20.00 | 64.4 | 74.0   | 58.4  |
| NOR118_7641850_190617_0018.NBF | (2019/06/17 16:23:21.00 | 67.2 | 85.6   | 58.2  |
| NOR118_7641850_190617_0019.NBF | (2019/06/17 16:28:23.00 | 66.6 | 82.6   | 59.5  |
| NOR118_7641850_190617_0020.NBF | (2019/06/17 16:33:24.00 | 66.4 | 81.8   | 58.4  |
| NOR118_7641850_190617_0021.NBF | (2019/06/17 16:38:25.00 | 63.5 | 70.3   | 56.2  |
| NOR118_7641850_190617_0022.NBF | (2019/06/17 16:43:27.00 | 65.0 | 83.2   | 56.5  |
| NOR118_7641850_190617_0023.NBF | (2019/06/17 16:48:28.00 | 66.5 | 80.2   | 59.2  |
| NOR118_7641850_190617_0024.NBF | (2019/06/17 16:53:30.00 | 64.5 | 72.7   | 57.7  |
| NOR118_7641850_190617_0025.NBF | (2019/06/17 16:58:31.00 | 65.4 | 73.0   | 57.6  |
| NOR118_7641850_190617_0026.NBF | (2019/06/17 17:03:32.00 | 64.7 | 79.5   | 58.4  |
| NOR118_7641850_190617_0027.NBF | (2019/06/17 17:08:34.00 | 63.0 | 70.8   | 57.5  |
| NOR118_7641850_190617_0028.NBF | (2019/06/17 17:13:35.00 | 63.2 | 72.9   | 58.2  |
| NOR118_7641850_190617_0029.NBF | (2019/06/17 17:18:36.00 | 64.1 | 73.2   | 57.4  |
| NOR118_7641850_190617_0030.NBF | (2019/06/17 17:23:38.00 | 64.6 | 72.0   | 57.1  |
| NOR118_7641850_190617_0031.NBF | (2019/06/17 17:28:39.00 | 63.2 | 69.3   | 57.6  |
| NOR118_7641850_190617_0032.NBF | (2019/06/17 17:33:41.00 | 64.2 | 84.9   | 57.6  |
| NOR118_7641850_190617_0033.NBF | (2019/06/17 17:38:42.00 | 63.9 | 71.1   | 55.7  |
| NOR118_7641850_190617_0034.NBF | (2019/06/17 17:43:43.00 | 64.5 | 74.7   | 57.6  |
| NOR118_7641850_190617_0035.NBF | (2019/06/17 17:48:45.00 | 64.3 | 72.3   | 58.2  |
| NOR118_7641850_190617_0036.NBF | (2019/06/17 17:53:46.00 | 64.3 | 80.3   | 56.4  |
| NOR118_7641850_190617_0037.NBF | (2019/06/17 17:58:47.00 | 64.4 | 72.9   | 56.7  |
| NOR118_7641850_190617_0038.NBF | (2019/06/17 18:03:49.00 | 64.5 | 74.2   | 56.6  |
| NOR118_7641850_190617_0039.NBF | (2019/06/17 18:08:50.00 | 63.8 | 76.4   | 56.1  |

|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7641850_190617_0040.NBF | (2019/06/17 18:13:52.00 | 66.1 | 91.8 | 57.8 |
| NOR118_7641850_190617_0041.NBF | (2019/06/17 18:18:53.00 | 64.8 | 79.1 | 58.1 |
| NOR118_7641850_190617_0042.NBF | (2019/06/17 18:23:54.00 | 64.6 | 74.7 | 57.1 |
| NOR118_7641850_190617_0043.NBF | (2019/06/17 18:28:56.00 | 63.9 | 74.6 | 57.1 |
| NOR118_7641850_190617_0044.NBF | (2019/06/17 18:33:57.00 | 64.4 | 72.1 | 57.2 |
| NOR118_7641850_190617_0045.NBF | (2019/06/17 18:38:58.00 | 64.1 | 71.7 | 54.9 |
| NOR118_7641850_190617_0046.NBF | (2019/06/17 18:44:00.00 | 63.7 | 79.6 | 55.6 |
| NOR118_7641850_190617_0047.NBF | (2019/06/17 18:49:01.00 | 62.8 | 71.3 | 55.8 |
| NOR118_7641850_190617_0048.NBF | (2019/06/17 18:54:03.00 | 63.7 | 71.9 | 55.6 |
| NOR118_7641850_190617_0049.NBF | (2019/06/17 18:59:04.00 | 63.8 | 71.5 | 54.0 |
| NOR118_7641850_190617_0050.NBF | (2019/06/17 19:04:05.00 | 63.7 | 75.3 | 55.0 |
| NOR118_7641850_190617_0051.NBF | (2019/06/17 19:09:07.00 | 61.8 | 69.9 | 54.7 |
| NOR118_7641850_190617_0052.NBF | (2019/06/17 19:14:08.00 | 63.0 | 73.4 | 54.3 |
| NOR118_7641850_190617_0053.NBF | (2019/06/17 19:19:09.00 | 69.0 | 92.4 | 50.9 |
| NOR118_7641850_190617_0054.NBF | (2019/06/17 19:24:11.00 | 62.7 | 72.9 | 54.4 |
| NOR118_7641850_190617_0055.NBF | (2019/06/17 19:29:12.00 | 64.2 | 81.3 | 53.3 |
| NOR118_7641850_190617_0056.NBF | (2019/06/17 19:34:13.00 | 62.5 | 73.0 | 50.4 |
| NOR118_7641850_190617_0057.NBF | (2019/06/17 19:39:15.00 | 63.0 | 71.6 | 53.8 |
| NOR118_7641850_190617_0058.NBF | (2019/06/17 19:44:17.00 | 62.2 | 73.7 | 49.1 |
| NOR118_7641850_190617_0059.NBF | (2019/06/17 19:49:18.00 | 61.4 | 69.1 | 50.7 |
| NOR118_7641850_190617_0060.NBF | (2019/06/17 19:54:19.00 | 62.6 | 74.2 | 51.6 |
| NOR118_7641850_190617_0061.NBF | (2019/06/17 19:59:21.00 | 63.3 | 80.9 | 53.1 |
| NOR118_7641850_190617_0062.NBF | (2019/06/17 20:04:22.00 | 64.3 | 81.7 | 54.6 |
| NOR118_7641850_190617_0063.NBF | (2019/06/17 20:09:24.00 | 61.6 | 71.3 | 50.4 |
| NOR118_7641850_190617_0064.NBF | (2019/06/17 20:14:25.00 | 63.2 | 71.1 | 51.7 |
| NOR118_7641850_190617_0065.NBF | (2019/06/17 20:19:26.00 | 63.0 | 79.5 | 51.4 |
| NOR118_7641850_190617_0066.NBF | (2019/06/17 20:24:27.00 | 61.3 | 70.1 | 46.2 |
| NOR118_7641850_190617_0067.NBF | (2019/06/17 20:29:29.00 | 61.3 | 73.2 | 47.3 |
| NOR118_7641850_190617_0068.NBF | (2019/06/17 20:34:30.00 | 60.6 | 72.3 | 49.9 |
| NOR118_7641850_190617_0069.NBF | (2019/06/17 20:39:32.00 | 63.9 | 81.2 | 50.9 |
| NOR118_7641850_190617_0070.NBF | (2019/06/17 20:44:33.00 | 63.5 | 75.6 | 53.4 |
| NOR118_7641850_190617_0071.NBF | (2019/06/17 20:49:35.00 | 62.0 | 74.8 | 51.5 |
| NOR118_7641850_190617_0072.NBF | (2019/06/17 20:54:36.00 | 59.4 | 67.0 | 47.0 |
| NOR118_7641850_190617_0073.NBF | (2019/06/17 20:59:37.00 | 61.1 | 71.4 | 52.3 |
| NOR118_7641850_190617_0074.NBF | (2019/06/17 21:04:39.00 | 60.4 | 68.4 | 50.6 |
| NOR118_7641850_190617_0075.NBF | (2019/06/17 21:09:40.00 | 62.7 | 72.5 | 53.7 |
| NOR118_7641850_190617_0076.NBF | (2019/06/17 21:14:41.00 | 60.5 | 71.3 | 45.3 |
| NOR118_7641850_190617_0077.NBF | (2019/06/17 21:19:43.00 | 59.0 | 67.5 | 43.1 |
| NOR118_7641850_190617_0078.NBF | (2019/06/17 21:24:44.00 | 60.4 | 74.1 | 45.1 |
| NOR118_7641850_190617_0079.NBF | (2019/06/17 21:29:46.00 | 62.1 | 81.4 | 48.2 |
| NOR118_7641850_190617_0080.NBF | (2019/06/17 21:34:47.00 | 59.8 | 71.9 | 38.5 |
| NOR118_7641850_190617_0081.NBF | (2019/06/17 21:39:48.00 | 60.6 | 69.7 | 49.0 |
| NOR118_7641850_190617_0082.NBF | (2019/06/17 21:44:50.00 | 60.6 | 68.4 | 48.2 |
| NOR118_7641850_190617_0083.NBF | (2019/06/17 21:49:51.00 | 60.1 | 72.8 | 44.0 |

Project: 76 Christchurch Road, Reading  
Client: RYTDAL LTD

Date: 21/06/2019  
Reference: 20190621\_4471\_ENS\_01.docx

|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7641850_190617_0084.NBF | (2019/06/17 21:54:52.00 | 59.9 | 76.3 | 45.6 |
| NOR118_7641850_190617_0085.NBF | (2019/06/17 21:59:54.00 | 60.8 | 71.2 | 46.0 |
| NOR118_7641850_190617_0086.NBF | (2019/06/17 22:04:55.00 | 59.0 | 69.7 | 45.6 |
| NOR118_7641850_190617_0087.NBF | (2019/06/17 22:09:56.00 | 59.9 | 73.7 | 38.3 |
| NOR118_7641850_190617_0088.NBF | (2019/06/17 22:14:58.00 | 59.3 | 69.3 | 47.4 |
| NOR118_7641850_190617_0089.NBF | (2019/06/17 22:19:59.00 | 58.6 | 69.6 | 43.5 |
| NOR118_7641850_190617_0090.NBF | (2019/06/17 22:25:01.00 | 59.8 | 74.7 | 45.6 |
| NOR118_7641850_190617_0091.NBF | (2019/06/17 22:30:02.00 | 60.9 | 79.3 | 45.9 |
| NOR118_7641850_190617_0092.NBF | (2019/06/17 22:35:03.00 | 63.9 | 87.0 | 46.1 |
| NOR118_7641850_190617_0093.NBF | (2019/06/17 22:40:05.00 | 59.5 | 71.4 | 39.8 |
| NOR118_7641850_190617_0094.NBF | (2019/06/17 22:45:06.00 | 59.2 | 74.9 | 40.9 |
| NOR118_7641850_190617_0095.NBF | (2019/06/17 22:50:07.00 | 57.2 | 68.7 | 37.8 |
| NOR118_7641850_190617_0096.NBF | (2019/06/17 22:55:09.00 | 58.0 | 70.3 | 34.7 |
| NOR118_7641850_190617_0097.NBF | (2019/06/17 23:00:10.00 | 58.6 | 73.5 | 41.6 |
| NOR118_7641850_190617_0098.NBF | (2019/06/17 23:05:12.00 | 59.1 | 70.4 | 46.6 |
| NOR118_7641850_190617_0099.NBF | (2019/06/17 23:10:13.00 | 58.9 | 69.7 | 38.1 |
| NOR118_7641850_190617_0100.NBF | (2019/06/17 23:15:14.00 | 57.1 | 69.5 | 36.7 |
| NOR118_7641850_190617_0101.NBF | (2019/06/17 23:20:16.00 | 57.5 | 75.2 | 34.1 |
| NOR118_7641850_190617_0102.NBF | (2019/06/17 23:25:17.00 | 57.0 | 70.4 | 31.2 |
| NOR118_7641850_190617_0103.NBF | (2019/06/17 23:30:18.00 | 56.3 | 69.1 | 32.3 |
| NOR118_7641850_190617_0104.NBF | (2019/06/17 23:35:20.00 | 58.4 | 73.6 | 36.3 |
| NOR118_7641850_190617_0105.NBF | (2019/06/17 23:40:21.00 | 57.6 | 75.2 | 32.2 |
| NOR118_7641850_190617_0106.NBF | (2019/06/17 23:45:23.00 | 57.4 | 73.9 | 33.5 |
| NOR118_7641850_190617_0107.NBF | (2019/06/17 23:50:24.00 | 52.4 | 68.0 | 34.2 |
| NOR118_7641850_190618_0001.NBF | (2019/06/17 23:55:25.00 | 56.7 | 76.2 | 32.6 |
| NOR118_7641850_190618_0002.NBF | (2019/06/18 00:00:27.00 | 55.8 | 69.1 | 33.3 |
| NOR118_7641850_190618_0003.NBF | (2019/06/18 00:05:28.00 | 56.0 | 73.6 | 37.2 |
| NOR118_7641850_190618_0004.NBF | (2019/06/18 00:10:29.00 | 51.8 | 67.3 | 36.4 |
| NOR118_7641850_190618_0005.NBF | (2019/06/18 00:15:31.00 | 54.6 | 68.8 | 35.0 |
| NOR118_7641850_190618_0006.NBF | (2019/06/18 00:20:32.00 | 57.6 | 75.4 | 34.5 |
| NOR118_7641850_190618_0007.NBF | (2019/06/18 00:25:34.00 | 51.1 | 67.0 | 33.9 |
| NOR118_7641850_190618_0008.NBF | (2019/06/18 00:30:35.00 | 53.6 | 67.7 | 34.8 |
| NOR118_7641850_190618_0009.NBF | (2019/06/18 00:35:36.00 | 57.6 | 73.8 | 34.3 |
| NOR118_7641850_190618_0010.NBF | (2019/06/18 00:40:38.00 | 55.9 | 68.6 | 35.3 |
| NOR118_7641850_190618_0011.NBF | (2019/06/18 00:45:39.00 | 52.9 | 72.5 | 35.5 |
| NOR118_7641850_190618_0012.NBF | (2019/06/18 00:50:41.00 | 55.6 | 76.3 | 32.2 |
| NOR118_7641850_190618_0013.NBF | (2019/06/18 00:55:42.00 | 47.5 | 67.9 | 32.5 |
| NOR118_7641850_190618_0014.NBF | (2019/06/18 01:00:43.00 | 53.7 | 69.6 | 34.6 |
| NOR118_7641850_190618_0015.NBF | (2019/06/18 01:05:45.00 | 56.1 | 70.8 | 32.5 |
| NOR118_7641850_190618_0016.NBF | (2019/06/18 01:10:46.00 | 46.9 | 64.9 | 30.7 |
| NOR118_7641850_190618_0017.NBF | (2019/06/18 01:15:48.00 | 51.9 | 69.1 | 31.7 |
| NOR118_7641850_190618_0018.NBF | (2019/06/18 01:20:49.00 | 53.6 | 70.3 | 31.2 |
| NOR118_7641850_190618_0019.NBF | (2019/06/18 01:25:50.00 | 38.4 | 53.7 | 30.7 |
| NOR118_7641850_190618_0020.NBF | (2019/06/18 01:30:52.00 | 56.3 | 73.1 | 31.0 |

|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7641850_190618_0021.NBF | (2019/06/18 01:35:54.00 | 56.3 | 71.5 | 30.0 |
| NOR118_7641850_190618_0022.NBF | (2019/06/18 01:40:55.00 | 48.6 | 68.6 | 29.8 |
| NOR118_7641850_190618_0023.NBF | (2019/06/18 01:45:56.00 | 40.5 | 53.5 | 30.4 |
| NOR118_7641850_190618_0024.NBF | (2019/06/18 01:50:58.00 | 54.3 | 69.7 | 30.7 |
| NOR118_7641850_190618_0025.NBF | (2019/06/18 01:55:59.00 | 52.7 | 71.1 | 31.4 |
| NOR118_7641850_190618_0026.NBF | (2019/06/18 02:01:00.00 | 55.8 | 76.0 | 30.2 |
| NOR118_7641850_190618_0027.NBF | (2019/06/18 02:06:02.00 | 49.5 | 68.3 | 31.2 |
| NOR118_7641850_190618_0028.NBF | (2019/06/18 02:11:03.00 | 55.5 | 73.4 | 32.0 |
| NOR118_7641850_190618_0029.NBF | (2019/06/18 02:16:05.00 | 36.0 | 49.0 | 29.8 |
| NOR118_7641850_190618_0030.NBF | (2019/06/18 02:21:06.00 | 54.9 | 73.8 | 30.3 |
| NOR118_7641850_190618_0031.NBF | (2019/06/18 02:26:07.00 | 56.4 | 73.2 | 34.4 |
| NOR118_7641850_190618_0032.NBF | (2019/06/18 02:31:09.00 | 49.4 | 64.4 | 32.7 |
| NOR118_7641850_190618_0033.NBF | (2019/06/18 02:36:11.00 | 56.6 | 73.2 | 32.9 |
| NOR118_7641850_190618_0034.NBF | (2019/06/18 02:41:12.00 | 52.2 | 69.9 | 35.7 |
| NOR118_7641850_190618_0035.NBF | (2019/06/18 02:46:13.00 | 56.6 | 71.1 | 39.8 |
| NOR118_7641850_190618_0036.NBF | (2019/06/18 02:51:14.00 | 55.7 | 71.5 | 40.1 |
| NOR118_7641850_190618_0037.NBF | (2019/06/18 02:56:16.00 | 56.0 | 73.9 | 38.6 |
| NOR118_7641850_190618_0038.NBF | (2019/06/18 03:01:17.00 | 51.6 | 67.1 | 38.8 |
| NOR118_7641850_190618_0039.NBF | (2019/06/18 03:06:19.00 | 54.7 | 69.0 | 38.0 |
| NOR118_7641850_190618_0040.NBF | (2019/06/18 03:11:20.00 | 59.0 | 79.2 | 38.4 |
| NOR118_7641850_190618_0041.NBF | (2019/06/18 03:16:22.00 | 53.3 | 70.6 | 38.7 |
| NOR118_7641850_190618_0042.NBF | (2019/06/18 03:21:23.00 | 58.3 | 74.7 | 39.2 |
| NOR118_7641850_190618_0043.NBF | (2019/06/18 03:26:24.00 | 57.0 | 77.2 | 36.1 |
| NOR118_7641850_190618_0044.NBF | (2019/06/18 03:31:26.00 | 58.3 | 76.3 | 38.2 |
| NOR118_7641850_190618_0045.NBF | (2019/06/18 03:36:27.00 | 58.7 | 78.6 | 35.6 |
| NOR118_7641850_190618_0046.NBF | (2019/06/18 03:41:29.00 | 54.9 | 70.1 | 35.3 |
| NOR118_7641850_190618_0047.NBF | (2019/06/18 03:46:30.00 | 59.3 | 74.7 | 35.8 |
| NOR118_7641850_190618_0048.NBF | (2019/06/18 03:51:32.00 | 58.3 | 71.7 | 34.6 |
| NOR118_7641850_190618_0049.NBF | (2019/06/18 03:56:33.00 | 55.8 | 76.1 | 34.6 |
| NOR118_7641850_190618_0050.NBF | (2019/06/18 04:01:35.00 | 57.1 | 70.0 | 35.2 |
| NOR118_7641850_190618_0051.NBF | (2019/06/18 04:06:36.00 | 60.9 | 77.8 | 36.7 |
| NOR118_7641850_190618_0052.NBF | (2019/06/18 04:11:37.00 | 56.0 | 70.0 | 36.2 |
| NOR118_7641850_190618_0053.NBF | (2019/06/18 04:16:39.00 | 58.0 | 73.9 | 38.1 |
| NOR118_7641850_190618_0054.NBF | (2019/06/18 04:21:40.00 | 57.4 | 72.7 | 38.0 |
| NOR118_7641850_190618_0055.NBF | (2019/06/18 04:26:42.00 | 58.2 | 73.9 | 36.7 |
| NOR118_7641850_190618_0056.NBF | (2019/06/18 04:31:43.00 | 59.6 | 74.7 | 37.3 |
| NOR118_7641850_190618_0057.NBF | (2019/06/18 04:36:44.00 | 62.4 | 74.0 | 41.9 |
| NOR118_7641850_190618_0058.NBF | (2019/06/18 04:41:46.00 | 59.3 | 73.5 | 41.7 |
| NOR118_7641850_190618_0059.NBF | (2019/06/18 04:46:48.00 | 60.6 | 73.0 | 45.2 |
| NOR118_7641850_190618_0060.NBF | (2019/06/18 04:51:49.00 | 61.2 | 73.6 | 43.0 |
| NOR118_7641850_190618_0061.NBF | (2019/06/18 04:56:50.00 | 60.0 | 75.2 | 44.1 |
| NOR118_7641850_190618_0062.NBF | (2019/06/18 05:01:52.00 | 62.4 | 72.8 | 47.3 |
| NOR118_7641850_190618_0063.NBF | (2019/06/18 05:06:53.00 | 59.7 | 71.2 | 46.0 |
| NOR118_7641850_190618_0064.NBF | (2019/06/18 05:11:55.00 | 62.0 | 77.0 | 47.7 |

|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7641850_190618_0065.NBF | (2019/06/18 05:16:56.00 | 63.8 | 77.9 | 50.3 |
| NOR118_7641850_190618_0066.NBF | (2019/06/18 05:21:57.00 | 59.9 | 69.9 | 49.8 |
| NOR118_7641850_190618_0067.NBF | (2019/06/18 05:26:59.00 | 61.8 | 71.0 | 50.1 |
| NOR118_7641850_190618_0068.NBF | (2019/06/18 05:32:00.00 | 63.5 | 74.1 | 51.1 |
| NOR118_7641850_190618_0069.NBF | (2019/06/18 05:37:01.00 | 64.5 | 73.2 | 55.4 |
| NOR118_7641850_190618_0070.NBF | (2019/06/18 05:42:03.00 | 64.5 | 73.5 | 56.0 |
| NOR118_7641850_190618_0071.NBF | (2019/06/18 05:47:04.00 | 65.5 | 73.4 | 53.0 |
| NOR118_7641850_190618_0072.NBF | (2019/06/18 05:52:06.00 | 64.2 | 73.9 | 54.6 |
| NOR118_7641850_190618_0073.NBF | (2019/06/18 05:57:07.00 | 65.2 | 72.8 | 54.2 |
| NOR118_7641850_190618_0074.NBF | (2019/06/18 06:02:08.00 | 65.3 | 77.3 | 55.8 |
| NOR118_7641850_190618_0075.NBF | (2019/06/18 06:07:10.00 | 67.1 | 78.8 | 57.2 |
| NOR118_7641850_190618_0076.NBF | (2019/06/18 06:12:11.00 | 65.4 | 72.3 | 58.3 |
| NOR118_7641850_190618_0077.NBF | (2019/06/18 06:17:13.00 | 65.7 | 77.9 | 54.8 |
| NOR118_7641850_190618_0078.NBF | (2019/06/18 06:22:14.00 | 66.2 | 74.2 | 58.8 |
| NOR118_7641850_190618_0079.NBF | (2019/06/18 06:27:15.00 | 66.6 | 73.3 | 59.5 |
| NOR118_7641850_190618_0080.NBF | (2019/06/18 06:32:17.00 | 66.2 | 76.5 | 59.9 |
| NOR118_7641850_190618_0081.NBF | (2019/06/18 06:37:18.00 | 67.0 | 77.8 | 59.3 |
| NOR118_7641850_190618_0082.NBF | (2019/06/18 06:42:20.00 | 66.1 | 75.9 | 59.7 |
| NOR118_7641850_190618_0083.NBF | (2019/06/18 06:47:21.00 | 67.0 | 77.4 | 60.9 |
| NOR118_7641850_190618_0084.NBF | (2019/06/18 06:52:22.00 | 66.8 | 77.3 | 59.0 |
| NOR118_7641850_190618_0085.NBF | (2019/06/18 06:57:24.00 | 65.5 | 77.0 | 58.1 |
| NOR118_7641850_190618_0086.NBF | (2019/06/18 07:02:25.00 | 65.7 | 72.8 | 59.8 |
| NOR118_7641850_190618_0087.NBF | (2019/06/18 07:07:27.00 | 65.6 | 73.0 | 58.5 |
| NOR118_7641850_190618_0088.NBF | (2019/06/18 07:12:28.00 | 65.7 | 79.6 | 60.2 |
| NOR118_7641850_190618_0089.NBF | (2019/06/18 07:17:29.00 | 66.5 | 77.0 | 59.4 |
| NOR118_7641850_190618_0090.NBF | (2019/06/18 07:22:31.00 | 69.9 | 88.4 | 60.0 |
| NOR118_7641850_190618_0091.NBF | (2019/06/18 07:27:32.00 | 67.3 | 90.7 | 60.2 |
| NOR118_7641850_190618_0092.NBF | (2019/06/18 07:32:34.00 | 65.7 | 78.8 | 59.8 |
| NOR118_7641850_190618_0093.NBF | (2019/06/18 07:37:35.00 | 66.7 | 78.8 | 60.1 |
| NOR118_7641850_190618_0094.NBF | (2019/06/18 07:42:36.00 | 65.2 | 76.4 | 56.8 |
| NOR118_7641850_190618_0095.NBF | (2019/06/18 07:47:38.00 | 65.2 | 77.9 | 58.3 |
| NOR118_7641850_190618_0096.NBF | (2019/06/18 07:52:39.00 | 65.1 | 71.7 | 58.4 |
| NOR118_7641850_190618_0097.NBF | (2019/06/18 07:57:40.00 | 64.4 | 75.7 | 57.6 |
| NOR118_7641850_190618_0098.NBF | (2019/06/18 08:02:42.00 | 65.2 | 74.8 | 57.3 |
| NOR118_7641850_190618_0099.NBF | (2019/06/18 08:07:43.00 | 63.6 | 72.3 | 57.4 |
| NOR118_7641850_190618_0100.NBF | (2019/06/18 08:12:44.00 | 65.2 | 78.1 | 60.3 |
| NOR118_7641850_190618_0101.NBF | (2019/06/18 08:17:46.00 | 64.5 | 74.0 | 54.5 |
| NOR118_7641850_190618_0102.NBF | (2019/06/18 08:22:47.00 | 64.8 | 77.2 | 56.7 |
| NOR118_7641850_190618_0103.NBF | (2019/06/18 08:27:49.00 | 65.5 | 77.5 | 56.3 |
| NOR118_7641850_190618_0104.NBF | (2019/06/18 08:32:50.00 | 63.8 | 72.6 | 56.6 |
| NOR118_7641850_190618_0105.NBF | (2019/06/18 08:37:52.00 | 64.2 | 75.5 | 58.0 |
| NOR118_7641850_190618_0106.NBF | (2019/06/18 08:42:53.00 | 64.6 | 73.2 | 57.0 |
| NOR118_7641850_190618_0107.NBF | (2019/06/18 08:47:54.00 | 66.1 | 77.1 | 56.9 |
| NOR118_7641850_190618_0108.NBF | (2019/06/18 08:52:56.00 | 64.6 | 73.9 | 56.6 |

|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7641850_190618_0109.NBF | (2019/06/18 08:57:57.00 | 64.6 | 73.3 | 56.3 |
| NOR118_7641850_190618_0110.NBF | (2019/06/18 09:02:58.00 | 65.1 | 76.4 | 56.6 |
| NOR118_7641850_190618_0111.NBF | (2019/06/18 09:08:00.00 | 62.8 | 72.8 | 55.3 |
| NOR118_7641850_190618_0112.NBF | (2019/06/18 09:13:01.00 | 68.0 | 86.5 | 58.0 |
| NOR118_7641850_190618_0113.NBF | (2019/06/18 09:18:02.00 | 63.9 | 70.4 | 58.4 |
| NOR118_7641850_190618_0114.NBF | (2019/06/18 09:23:04.00 | 63.1 | 74.1 | 55.7 |
| NOR118_7641850_190618_0115.NBF | (2019/06/18 09:28:05.00 | 63.3 | 69.8 | 55.1 |
| NOR118_7641850_190618_0116.NBF | (2019/06/18 09:33:06.00 | 63.5 | 69.7 | 55.1 |
| NOR118_7641850_190618_0117.NBF | (2019/06/18 09:38:08.00 | 63.6 | 72.0 | 57.3 |
| NOR118_7641850_190618_0118.NBF | (2019/06/18 09:43:09.00 | 64.8 | 74.6 | 58.2 |
| NOR118_7641850_190618_0119.NBF | (2019/06/18 09:48:11.00 | 65.0 | 74.9 | 56.9 |
| NOR118_7641850_190618_0120.NBF | (2019/06/18 09:53:12.00 | 66.4 | 85.6 | 57.8 |
| NOR118_7641850_190618_0121.NBF | (2019/06/18 09:58:13.00 | 65.9 | 76.0 | 58.7 |
| NOR118_7641850_190618_0122.NBF | (2019/06/18 10:03:15.00 | 64.3 | 75.5 | 55.8 |
| NOR118_7641850_190618_0123.NBF | (2019/06/18 10:08:16.00 | 65.1 | 75.9 | 58.2 |
| NOR118_7641850_190618_0124.NBF | (2019/06/18 10:13:17.00 | 64.1 | 73.4 | 56.5 |
| NOR118_7641850_190618_0125.NBF | (2019/06/18 10:18:19.00 | 64.0 | 74.6 | 56.5 |
| NOR118_7641850_190618_0126.NBF | (2019/06/18 10:23:20.00 | 64.1 | 73.3 | 56.9 |
| NOR118_7641850_190618_0127.NBF | (2019/06/18 10:28:22.00 | 64.8 | 77.3 | 56.9 |
| NOR118_7641850_190618_0128.NBF | (2019/06/18 10:33:23.00 | 65.3 | 74.3 | 60.6 |
| NOR118_7641850_190618_0129.NBF | (2019/06/18 10:38:24.00 | 65.0 | 73.7 | 59.2 |
| NOR118_7641850_190618_0130.NBF | (2019/06/18 10:43:26.00 | 65.8 | 76.3 | 59.1 |
| NOR118_7641850_190618_0131.NBF | (2019/06/18 10:48:27.00 | 66.0 | 74.4 | 57.8 |
| NOR118_7641850_190618_0132.NBF | (2019/06/18 10:53:29.00 | 66.1 | 79.9 | 59.0 |
| NOR118_7641850_190618_0133.NBF | (2019/06/18 10:58:30.00 | 64.3 | 71.7 | 58.1 |
| NOR118_7641850_190618_0134.NBF | (2019/06/18 11:03:31.00 | 66.5 | 80.9 | 59.0 |
| NOR118_7641850_190618_0135.NBF | (2019/06/18 11:08:33.00 | 66.0 | 73.2 | 58.4 |
| NOR118_7641850_190618_0136.NBF | (2019/06/18 11:13:34.00 | 64.6 | 75.3 | 58.0 |
| NOR118_7641850_190618_0137.NBF | (2019/06/18 11:18:35.00 | 65.3 | 75.4 | 58.9 |
| NOR118_7641850_190618_0138.NBF | (2019/06/18 11:23:37.00 | 65.9 | 73.4 | 59.6 |
| NOR118_7641850_190618_0139.NBF | (2019/06/18 11:28:38.00 | 67.1 | 78.1 | 59.9 |
| NOR118_7641850_190618_0140.NBF | (2019/06/18 11:33:39.00 | 64.8 | 76.2 | 56.0 |
| NOR118_7641850_190618_0141.NBF | (2019/06/18 11:38:41.00 | 74.5 | 93.6 | 56.8 |
| NOR118_7641850_190618_0142.NBF | (2019/06/18 11:43:42.00 | 65.0 | 80.5 | 59.3 |
| NOR118_7641850_190618_0143.NBF | (2019/06/18 11:48:43.00 | 65.6 | 80.1 | 57.6 |
| NOR118_7641850_190618_0144.NBF | (2019/06/18 11:53:45.00 | 65.8 | 75.8 | 57.5 |
| NOR118_7641850_190618_0145.NBF | (2019/06/18 11:58:46.00 | 68.0 | 86.5 | 57.8 |
| NOR118_7641850_190618_0146.NBF | (2019/06/18 12:03:48.00 | 65.4 | 74.1 | 59.6 |
| NOR118_7641850_190618_0147.NBF | (2019/06/18 12:08:49.00 | 66.4 | 76.5 | 60.4 |
| NOR118_7641850_190618_0148.NBF | (2019/06/18 12:13:50.00 | 67.7 | 92.2 | 57.8 |
| NOR118_7641850_190618_0149.NBF | (2019/06/18 12:18:52.00 | 64.9 | 82.8 | 58.3 |
| NOR118_7641850_190618_0150.NBF | (2019/06/18 12:23:53.00 | 65.1 | 76.0 | 58.7 |
| NOR118_7641850_190618_0151.NBF | (2019/06/18 12:28:54.00 | 65.0 | 72.6 | 59.2 |
| NOR118_7641850_190618_0152.NBF | (2019/06/18 12:33:56.00 | 65.3 | 80.2 | 57.5 |

Project: 76 Christchurch Road, Reading  
Client: RYTDAL LTD

Date: 21/06/2019  
Reference: 20190621\_4471\_ENS\_01.docx

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|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7641850_190618_0153.NBF | (2019/06/18 12:38:57.00 | 73.7 | 93.1 | 59.5 |
| NOR118_7641850_190618_0154.NBF | (2019/06/18 12:43:59.00 | 64.2 | 73.3 | 57.7 |
| NOR118_7641850_190618_0155.NBF | (2019/06/18 12:49:00.00 | 65.9 | 78.8 | 57.5 |
| NOR118_7641850_190618_0156.NBF | (2019/06/18 12:54:01.00 | 64.4 | 77.2 | 58.0 |
| NOR118_7641850_190618_0157.NBF | (2019/06/18 12:59:03.00 | 65.0 | 78.5 | 58.5 |
| NOR118_7641850_190618_0158.NBF | (2019/06/18 13:04:04.00 | 65.8 | 79.4 | 58.2 |
| NOR118_7641850_190618_0159.NBF | (2019/06/18 13:09:06.00 | 68.1 | 85.6 | 59.4 |
| NOR118_7641850_190618_0160.NBF | (2019/06/18 13:14:07.00 | 66.0 | 78.2 | 58.6 |
| NOR118_7641850_190618_0161.NBF | (2019/06/18 13:19:08.00 | 66.2 | 83.8 | 58.9 |
| NOR118_7641850_190618_0162.NBF | (2019/06/18 13:24:10.00 | 69.3 | 82.1 | 56.9 |

## MP2

| File                           | Date                    | LAeq | LAFmax | LAF90 |
|--------------------------------|-------------------------|------|--------|-------|
| NOR118_7091284_190617_0001.NBF | (2019/06/17 16:30:12.00 | 51.1 | 62.0   | 49.5  |
| NOR118_7091284_190617_0002.NBF | (2019/06/17 16:35:12.00 | 49.6 | 58.0   | 47.5  |
| NOR118_7091284_190617_0003.NBF | (2019/06/17 16:40:12.00 | 50.2 | 62.6   | 48.0  |
| NOR118_7091284_190617_0004.NBF | (2019/06/17 16:45:12.00 | 50.5 | 61.6   | 48.0  |
| NOR118_7091284_190617_0005.NBF | (2019/06/17 16:50:13.00 | 49.9 | 59.0   | 47.5  |
| NOR118_7091284_190617_0006.NBF | (2019/06/17 16:55:13.00 | 48.7 | 56.9   | 47.1  |
| NOR118_7091284_190617_0007.NBF | (2019/06/17 17:00:13.00 | 49.0 | 61.1   | 47.5  |
| NOR118_7091284_190617_0008.NBF | (2019/06/17 17:05:13.00 | 48.9 | 60.9   | 47.1  |
| NOR118_7091284_190617_0009.NBF | (2019/06/17 17:10:13.00 | 49.9 | 53.2   | 47.9  |
| NOR118_7091284_190617_0010.NBF | (2019/06/17 17:15:13.00 | 51.1 | 66.3   | 49.8  |
| NOR118_7091284_190617_0011.NBF | (2019/06/17 17:20:14.00 | 50.7 | 58.5   | 49.6  |
| NOR118_7091284_190617_0012.NBF | (2019/06/17 17:25:14.00 | 53.0 | 65.2   | 48.5  |
| NOR118_7091284_190617_0013.NBF | (2019/06/17 17:30:14.00 | 49.9 | 57.8   | 47.3  |
| NOR118_7091284_190617_0014.NBF | (2019/06/17 17:35:14.00 | 51.6 | 60.4   | 49.9  |
| NOR118_7091284_190617_0015.NBF | (2019/06/17 17:40:14.00 | 49.7 | 58.2   | 47.4  |
| NOR118_7091284_190617_0016.NBF | (2019/06/17 17:45:15.00 | 50.6 | 56.1   | 49.4  |
| NOR118_7091284_190617_0017.NBF | (2019/06/17 17:50:15.00 | 51.6 | 72.0   | 48.1  |
| NOR118_7091284_190617_0018.NBF | (2019/06/17 17:55:15.00 | 50.7 | 59.0   | 49.6  |
| NOR118_7091284_190617_0019.NBF | (2019/06/17 18:00:15.00 | 49.8 | 57.3   | 47.3  |
| NOR118_7091284_190617_0020.NBF | (2019/06/17 18:05:15.00 | 50.2 | 58.8   | 48.3  |
| NOR118_7091284_190617_0021.NBF | (2019/06/17 18:10:16.00 | 49.9 | 60.8   | 47.2  |
| NOR118_7091284_190617_0022.NBF | (2019/06/17 18:15:16.00 | 49.5 | 57.1   | 47.5  |
| NOR118_7091284_190617_0023.NBF | (2019/06/17 18:20:16.00 | 50.1 | 62.0   | 47.7  |
| NOR118_7091284_190617_0024.NBF | (2019/06/17 18:25:16.00 | 48.7 | 54.1   | 46.9  |
| NOR118_7091284_190617_0025.NBF | (2019/06/17 18:30:17.00 | 51.0 | 60.5   | 49.9  |
| NOR118_7091284_190617_0026.NBF | (2019/06/17 18:35:17.00 | 49.0 | 58.0   | 47.3  |
| NOR118_7091284_190617_0027.NBF | (2019/06/17 18:40:17.00 | 50.9 | 60.3   | 49.7  |
| NOR118_7091284_190617_0028.NBF | (2019/06/17 18:45:17.00 | 49.7 | 56.0   | 47.3  |
| NOR118_7091284_190617_0029.NBF | (2019/06/17 18:50:17.00 | 49.5 | 58.0   | 47.7  |
| NOR118_7091284_190617_0030.NBF | (2019/06/17 18:55:17.00 | 49.1 | 63.5   | 47.5  |
| NOR118_7091284_190617_0031.NBF | (2019/06/17 19:00:18.00 | 48.9 | 62.5   | 47.4  |
| NOR118_7091284_190617_0032.NBF | (2019/06/17 19:05:18.00 | 49.1 | 55.0   | 47.7  |
| NOR118_7091284_190617_0033.NBF | (2019/06/17 19:10:18.00 | 50.2 | 54.6   | 48.5  |
| NOR118_7091284_190617_0034.NBF | (2019/06/17 19:15:18.00 | 51.0 | 59.5   | 49.9  |
| NOR118_7091284_190617_0035.NBF | (2019/06/17 19:20:18.00 | 50.1 | 54.7   | 49.2  |
| NOR118_7091284_190617_0036.NBF | (2019/06/17 19:25:18.00 | 49.0 | 56.2   | 47.3  |
| NOR118_7091284_190617_0037.NBF | (2019/06/17 19:30:19.00 | 49.9 | 54.7   | 48.6  |
| NOR118_7091284_190617_0038.NBF | (2019/06/17 19:35:19.00 | 49.6 | 58.1   | 47.3  |
| NOR118_7091284_190617_0039.NBF | (2019/06/17 19:40:19.00 | 49.5 | 55.0   | 46.3  |
| NOR118_7091284_190617_0040.NBF | (2019/06/17 19:45:20.00 | 50.7 | 60.9   | 47.6  |

|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7091284_190617_0041.NBF | (2019/06/17 19:50:20.00 | 49.2 | 57.1 | 46.6 |
| NOR118_7091284_190617_0042.NBF | (2019/06/17 19:55:20.00 | 50.3 | 58.2 | 48.0 |
| NOR118_7091284_190617_0043.NBF | (2019/06/17 20:00:20.00 | 48.9 | 56.2 | 47.0 |
| NOR118_7091284_190617_0044.NBF | (2019/06/17 20:05:21.00 | 49.8 | 53.9 | 47.7 |
| NOR118_7091284_190617_0045.NBF | (2019/06/17 20:10:21.00 | 48.9 | 56.2 | 46.0 |
| NOR118_7091284_190617_0046.NBF | (2019/06/17 20:15:21.00 | 50.3 | 56.9 | 47.2 |
| NOR118_7091284_190617_0047.NBF | (2019/06/17 20:20:22.00 | 50.1 | 63.7 | 46.8 |
| NOR118_7091284_190617_0048.NBF | (2019/06/17 20:25:22.00 | 50.6 | 68.5 | 47.4 |
| NOR118_7091284_190617_0049.NBF | (2019/06/17 20:30:22.00 | 50.0 | 60.8 | 46.9 |
| NOR118_7091284_190617_0050.NBF | (2019/06/17 20:35:22.00 | 49.2 | 55.1 | 46.7 |
| NOR118_7091284_190617_0051.NBF | (2019/06/17 20:40:23.00 | 49.3 | 58.3 | 46.8 |
| NOR118_7091284_190617_0052.NBF | (2019/06/17 20:45:23.00 | 50.9 | 64.9 | 47.6 |
| NOR118_7091284_190617_0053.NBF | (2019/06/17 20:50:23.00 | 48.2 | 56.4 | 46.1 |
| NOR118_7091284_190617_0054.NBF | (2019/06/17 20:55:24.00 | 47.7 | 56.0 | 45.9 |
| NOR118_7091284_190617_0055.NBF | (2019/06/17 21:00:24.00 | 48.0 | 57.2 | 46.2 |
| NOR118_7091284_190617_0056.NBF | (2019/06/17 21:05:24.00 | 47.7 | 54.1 | 45.9 |
| NOR118_7091284_190617_0057.NBF | (2019/06/17 21:10:25.00 | 50.5 | 57.0 | 48.4 |
| NOR118_7091284_190617_0058.NBF | (2019/06/17 21:15:25.00 | 50.6 | 56.3 | 49.4 |
| NOR118_7091284_190617_0059.NBF | (2019/06/17 21:20:25.00 | 50.1 | 61.1 | 48.0 |
| NOR118_7091284_190617_0060.NBF | (2019/06/17 21:25:25.00 | 49.1 | 57.0 | 47.1 |
| NOR118_7091284_190617_0061.NBF | (2019/06/17 21:30:25.00 | 50.0 | 57.1 | 47.7 |
| NOR118_7091284_190617_0062.NBF | (2019/06/17 21:35:26.00 | 49.0 | 57.6 | 46.9 |
| NOR118_7091284_190617_0063.NBF | (2019/06/17 21:40:26.00 | 50.2 | 61.8 | 47.6 |
| NOR118_7091284_190617_0064.NBF | (2019/06/17 21:45:27.00 | 49.3 | 57.1 | 46.4 |
| NOR118_7091284_190617_0065.NBF | (2019/06/17 21:50:27.00 | 49.6 | 58.0 | 46.6 |
| NOR118_7091284_190617_0066.NBF | (2019/06/17 21:55:28.00 | 49.2 | 55.0 | 46.7 |
| NOR118_7091284_190617_0067.NBF | (2019/06/17 22:00:28.00 | 48.7 | 58.1 | 46.5 |
| NOR118_7091284_190617_0068.NBF | (2019/06/17 22:05:28.00 | 49.2 | 57.9 | 46.7 |
| NOR118_7091284_190617_0069.NBF | (2019/06/17 22:10:28.00 | 47.8 | 53.3 | 46.1 |
| NOR118_7091284_190617_0070.NBF | (2019/06/17 22:15:28.00 | 49.3 | 52.4 | 48.3 |
| NOR118_7091284_190617_0071.NBF | (2019/06/17 22:20:28.00 | 46.7 | 54.0 | 45.3 |
| NOR118_7091284_190617_0072.NBF | (2019/06/17 22:25:29.00 | 49.0 | 53.9 | 47.7 |
| NOR118_7091284_190617_0073.NBF | (2019/06/17 22:30:29.00 | 47.6 | 52.3 | 45.6 |
| NOR118_7091284_190617_0074.NBF | (2019/06/17 22:35:29.00 | 48.9 | 54.9 | 45.4 |
| NOR118_7091284_190617_0075.NBF | (2019/06/17 22:40:30.00 | 47.9 | 53.8 | 45.7 |
| NOR118_7091284_190617_0076.NBF | (2019/06/17 22:45:30.00 | 48.2 | 55.6 | 45.9 |
| NOR118_7091284_190617_0077.NBF | (2019/06/17 22:50:30.00 | 46.0 | 52.5 | 44.4 |
| NOR118_7091284_190617_0078.NBF | (2019/06/17 22:55:31.00 | 45.8 | 51.2 | 44.4 |
| NOR118_7091284_190617_0079.NBF | (2019/06/17 23:00:31.00 | 47.3 | 56.9 | 45.6 |
| NOR118_7091284_190617_0080.NBF | (2019/06/17 23:05:31.00 | 46.2 | 49.5 | 45.2 |
| NOR118_7091284_190617_0081.NBF | (2019/06/17 23:10:32.00 | 48.5 | 56.9 | 46.1 |
| NOR118_7091284_190617_0082.NBF | (2019/06/17 23:15:32.00 | 48.8 | 53.3 | 46.6 |
| NOR118_7091284_190617_0083.NBF | (2019/06/17 23:20:32.00 | 46.5 | 55.7 | 45.1 |
| NOR118_7091284_190617_0084.NBF | (2019/06/17 23:25:33.00 | 48.3 | 56.8 | 45.2 |

Project: 76 Christchurch Road, Reading  
Client: RYTDAL LTD

Date: 21/06/2019  
Reference: 20190621\_4471\_ENS\_01.docx

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|--------------------------------|-------------------------|------|------|------|
| NOR118_7091284_190617_0085.NBF | (2019/06/17 23:30:33.00 | 46.7 | 56.5 | 44.9 |
| NOR118_7091284_190617_0086.NBF | (2019/06/17 23:35:33.00 | 48.4 | 60.6 | 45.1 |
| NOR118_7091284_190617_0087.NBF | (2019/06/17 23:40:33.00 | 45.5 | 52.3 | 44.1 |
| NOR118_7091284_190617_0088.NBF | (2019/06/17 23:45:33.00 | 47.6 | 54.5 | 44.7 |
| NOR118_7091284_190617_0089.NBF | (2019/06/17 23:50:33.00 | 48.0 | 59.0 | 44.0 |
| NOR118_7091284_190618_0001.NBF | (2019/06/17 23:55:34.00 | 47.4 | 53.1 | 44.7 |
| NOR118_7091284_190618_0002.NBF | (2019/06/18 00:00:34.00 | 45.7 | 51.1 | 43.9 |
| NOR118_7091284_190618_0003.NBF | (2019/06/18 00:05:35.00 | 47.6 | 53.0 | 45.1 |
| NOR118_7091284_190618_0004.NBF | (2019/06/18 00:10:35.00 | 46.5 | 53.5 | 44.3 |
| NOR118_7091284_190618_0005.NBF | (2019/06/18 00:15:35.00 | 46.3 | 49.9 | 43.5 |
| NOR118_7091284_190618_0006.NBF | (2019/06/18 00:20:36.00 | 47.3 | 60.0 | 44.4 |
| NOR118_7091284_190618_0007.NBF | (2019/06/18 00:25:36.00 | 45.1 | 50.6 | 43.1 |
| NOR118_7091284_190618_0008.NBF | (2019/06/18 00:30:37.00 | 47.7 | 59.4 | 44.8 |
| NOR118_7091284_190618_0009.NBF | (2019/06/18 00:35:37.00 | 45.5 | 55.4 | 44.1 |
| NOR118_7091284_190618_0010.NBF | (2019/06/18 00:40:37.00 | 47.7 | 50.8 | 44.8 |
| NOR118_7091284_190618_0011.NBF | (2019/06/18 00:45:37.00 | 45.3 | 51.5 | 43.9 |
| NOR118_7091284_190618_0012.NBF | (2019/06/18 00:50:38.00 | 46.9 | 54.8 | 44.1 |
| NOR118_7091284_190618_0013.NBF | (2019/06/18 00:55:38.00 | 45.4 | 56.9 | 44.0 |
| NOR118_7091284_190618_0014.NBF | (2019/06/18 01:00:38.00 | 45.1 | 49.6 | 44.0 |
| NOR118_7091284_190618_0015.NBF | (2019/06/18 01:05:38.00 | 45.1 | 54.7 | 43.9 |
| NOR118_7091284_190618_0016.NBF | (2019/06/18 01:10:38.00 | 48.0 | 51.3 | 45.0 |
| NOR118_7091284_190618_0017.NBF | (2019/06/18 01:15:38.00 | 46.1 | 51.5 | 41.3 |
| NOR118_7091284_190618_0018.NBF | (2019/06/18 01:20:39.00 | 44.0 | 54.0 | 39.3 |
| NOR118_7091284_190618_0019.NBF | (2019/06/18 01:25:39.00 | 46.0 | 51.9 | 39.9 |
| NOR118_7091284_190618_0020.NBF | (2019/06/18 01:30:39.00 | 41.1 | 49.6 | 39.5 |
| NOR118_7091284_190618_0021.NBF | (2019/06/18 01:35:40.00 | 46.0 | 51.3 | 40.6 |
| NOR118_7091284_190618_0022.NBF | (2019/06/18 01:40:40.00 | 41.1 | 46.9 | 39.8 |
| NOR118_7091284_190618_0023.NBF | (2019/06/18 01:45:40.00 | 45.8 | 49.7 | 40.5 |
| NOR118_7091284_190618_0024.NBF | (2019/06/18 01:50:40.00 | 41.8 | 48.5 | 39.3 |
| NOR118_7091284_190618_0025.NBF | (2019/06/18 01:55:41.00 | 44.3 | 50.7 | 36.3 |
| NOR118_7091284_190618_0026.NBF | (2019/06/18 02:00:41.00 | 43.0 | 49.4 | 40.0 |
| NOR118_7091284_190618_0027.NBF | (2019/06/18 02:05:41.00 | 45.0 | 51.0 | 43.0 |
| NOR118_7091284_190618_0028.NBF | (2019/06/18 02:10:42.00 | 47.2 | 52.4 | 44.4 |
| NOR118_7091284_190618_0029.NBF | (2019/06/18 02:15:42.00 | 43.7 | 47.3 | 42.8 |
| NOR118_7091284_190618_0030.NBF | (2019/06/18 02:20:42.00 | 47.3 | 50.4 | 44.0 |
| NOR118_7091284_190618_0031.NBF | (2019/06/18 02:25:42.00 | 43.8 | 47.2 | 42.9 |
| NOR118_7091284_190618_0032.NBF | (2019/06/18 02:30:42.00 | 47.0 | 50.4 | 44.0 |
| NOR118_7091284_190618_0033.NBF | (2019/06/18 02:35:43.00 | 43.6 | 55.9 | 38.4 |
| NOR118_7091284_190618_0034.NBF | (2019/06/18 02:40:43.00 | 44.4 | 49.2 | 39.5 |
| NOR118_7091284_190618_0035.NBF | (2019/06/18 02:45:43.00 | 43.7 | 53.4 | 36.9 |
| NOR118_7091284_190618_0036.NBF | (2019/06/18 02:50:43.00 | 40.4 | 46.8 | 37.5 |
| NOR118_7091284_190618_0037.NBF | (2019/06/18 02:55:43.00 | 40.5 | 47.9 | 38.2 |
| NOR118_7091284_190618_0038.NBF | (2019/06/18 03:00:43.00 | 38.3 | 44.9 | 35.9 |
| NOR118_7091284_190618_0039.NBF | (2019/06/18 03:05:44.00 | 41.8 | 48.8 | 36.3 |

|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7091284_190618_0040.NBF | (2019/06/18 03:10:44.00 | 46.5 | 49.8 | 38.2 |
| NOR118_7091284_190618_0041.NBF | (2019/06/18 03:15:44.00 | 43.7 | 49.2 | 39.2 |
| NOR118_7091284_190618_0042.NBF | (2019/06/18 03:20:44.00 | 42.6 | 49.1 | 37.0 |
| NOR118_7091284_190618_0043.NBF | (2019/06/18 03:25:45.00 | 45.5 | 55.6 | 40.0 |
| NOR118_7091284_190618_0044.NBF | (2019/06/18 03:30:45.00 | 42.5 | 50.0 | 40.2 |
| NOR118_7091284_190618_0045.NBF | (2019/06/18 03:35:45.00 | 47.1 | 56.6 | 42.7 |
| NOR118_7091284_190618_0046.NBF | (2019/06/18 03:40:45.00 | 46.5 | 56.2 | 42.6 |
| NOR118_7091284_190618_0047.NBF | (2019/06/18 03:45:46.00 | 50.5 | 59.3 | 45.7 |
| NOR118_7091284_190618_0048.NBF | (2019/06/18 03:50:46.00 | 51.2 | 60.5 | 46.7 |
| NOR118_7091284_190618_0049.NBF | (2019/06/18 03:55:46.00 | 51.3 | 59.4 | 46.6 |
| NOR118_7091284_190618_0050.NBF | (2019/06/18 04:00:46.00 | 51.1 | 59.1 | 46.2 |
| NOR118_7091284_190618_0051.NBF | (2019/06/18 04:05:47.00 | 50.3 | 60.9 | 45.7 |
| NOR118_7091284_190618_0052.NBF | (2019/06/18 04:10:47.00 | 50.6 | 59.2 | 46.9 |
| NOR118_7091284_190618_0053.NBF | (2019/06/18 04:15:47.00 | 48.2 | 55.7 | 44.6 |
| NOR118_7091284_190618_0054.NBF | (2019/06/18 04:20:47.00 | 49.4 | 54.9 | 46.8 |
| NOR118_7091284_190618_0055.NBF | (2019/06/18 04:25:48.00 | 47.5 | 56.0 | 45.5 |
| NOR118_7091284_190618_0056.NBF | (2019/06/18 04:30:48.00 | 46.8 | 53.3 | 45.2 |
| NOR118_7091284_190618_0057.NBF | (2019/06/18 04:35:48.00 | 48.6 | 59.5 | 45.5 |
| NOR118_7091284_190618_0058.NBF | (2019/06/18 04:40:49.00 | 46.1 | 59.8 | 44.6 |
| NOR118_7091284_190618_0059.NBF | (2019/06/18 04:45:49.00 | 48.3 | 60.1 | 45.3 |
| NOR118_7091284_190618_0060.NBF | (2019/06/18 04:50:49.00 | 46.1 | 64.5 | 41.6 |
| NOR118_7091284_190618_0061.NBF | (2019/06/18 04:55:50.00 | 44.7 | 64.2 | 41.5 |
| NOR118_7091284_190618_0062.NBF | (2019/06/18 05:00:50.00 | 46.1 | 68.5 | 41.6 |
| NOR118_7091284_190618_0063.NBF | (2019/06/18 05:05:50.00 | 45.1 | 63.1 | 41.5 |
| NOR118_7091284_190618_0064.NBF | (2019/06/18 05:10:51.00 | 47.7 | 52.2 | 42.7 |
| NOR118_7091284_190618_0065.NBF | (2019/06/18 05:15:51.00 | 45.6 | 53.1 | 43.2 |
| NOR118_7091284_190618_0066.NBF | (2019/06/18 05:20:51.00 | 46.9 | 56.8 | 42.9 |
| NOR118_7091284_190618_0067.NBF | (2019/06/18 05:25:51.00 | 48.5 | 67.0 | 44.2 |
| NOR118_7091284_190618_0068.NBF | (2019/06/18 05:30:51.00 | 47.1 | 66.0 | 43.7 |
| NOR118_7091284_190618_0069.NBF | (2019/06/18 05:35:51.00 | 48.4 | 64.0 | 44.3 |
| NOR118_7091284_190618_0070.NBF | (2019/06/18 05:40:52.00 | 46.3 | 67.5 | 43.3 |
| NOR118_7091284_190618_0071.NBF | (2019/06/18 05:45:52.00 | 47.5 | 64.9 | 44.4 |
| NOR118_7091284_190618_0072.NBF | (2019/06/18 05:50:52.00 | 47.1 | 55.5 | 44.9 |
| NOR118_7091284_190618_0073.NBF | (2019/06/18 05:55:53.00 | 47.6 | 56.4 | 44.2 |
| NOR118_7091284_190618_0074.NBF | (2019/06/18 06:00:53.00 | 47.7 | 57.3 | 44.9 |
| NOR118_7091284_190618_0075.NBF | (2019/06/18 06:05:53.00 | 46.7 | 64.8 | 44.3 |
| NOR118_7091284_190618_0076.NBF | (2019/06/18 06:10:53.00 | 48.5 | 53.0 | 45.8 |
| NOR118_7091284_190618_0077.NBF | (2019/06/18 06:15:53.00 | 47.6 | 52.0 | 45.6 |
| NOR118_7091284_190618_0078.NBF | (2019/06/18 06:20:53.00 | 48.8 | 62.5 | 46.3 |
| NOR118_7091284_190618_0079.NBF | (2019/06/18 06:25:54.00 | 50.0 | 69.4 | 47.7 |
| NOR118_7091284_190618_0080.NBF | (2019/06/18 06:30:54.00 | 49.9 | 63.2 | 48.0 |
| NOR118_7091284_190618_0081.NBF | (2019/06/18 06:35:54.00 | 49.5 | 59.8 | 47.9 |
| NOR118_7091284_190618_0082.NBF | (2019/06/18 06:40:55.00 | 50.8 | 54.1 | 49.4 |
| NOR118_7091284_190618_0083.NBF | (2019/06/18 06:45:55.00 | 49.3 | 54.6 | 47.5 |

|                                |                         |      |      |      |
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| NOR118_7091284_190618_0084.NBF | (2019/06/18 06:50:55.00 | 49.0 | 61.7 | 47.0 |
| NOR118_7091284_190618_0085.NBF | (2019/06/18 06:55:55.00 | 49.1 | 56.2 | 47.8 |
| NOR118_7091284_190618_0086.NBF | (2019/06/18 07:00:56.00 | 49.0 | 63.5 | 47.6 |
| NOR118_7091284_190618_0087.NBF | (2019/06/18 07:05:56.00 | 49.3 | 58.0 | 46.9 |
| NOR118_7091284_190618_0088.NBF | (2019/06/18 07:10:56.00 | 50.1 | 62.7 | 47.3 |
| NOR118_7091284_190618_0089.NBF | (2019/06/18 07:15:56.00 | 49.4 | 53.8 | 47.8 |
| NOR118_7091284_190618_0090.NBF | (2019/06/18 07:20:57.00 | 49.9 | 68.8 | 47.1 |
| NOR118_7091284_190618_0091.NBF | (2019/06/18 07:25:57.00 | 49.2 | 54.5 | 47.4 |
| NOR118_7091284_190618_0092.NBF | (2019/06/18 07:30:57.00 | 48.8 | 53.2 | 46.1 |
| NOR118_7091284_190618_0093.NBF | (2019/06/18 07:35:58.00 | 53.0 | 75.1 | 46.0 |
| NOR118_7091284_190618_0094.NBF | (2019/06/18 07:40:58.00 | 49.1 | 54.1 | 46.9 |
| NOR118_7091284_190618_0095.NBF | (2019/06/18 07:45:58.00 | 49.4 | 63.9 | 46.6 |
| NOR118_7091284_190618_0096.NBF | (2019/06/18 07:50:58.00 | 51.6 | 66.4 | 47.3 |
| NOR118_7091284_190618_0097.NBF | (2019/06/18 07:55:59.00 | 50.4 | 67.5 | 46.8 |
| NOR118_7091284_190618_0098.NBF | (2019/06/18 08:00:59.00 | 50.2 | 63.3 | 46.6 |
| NOR118_7091284_190618_0099.NBF | (2019/06/18 08:05:59.00 | 50.3 | 63.7 | 45.4 |
| NOR118_7091284_190618_0100.NBF | (2019/06/18 08:10:59.00 | 50.5 | 67.9 | 45.9 |
| NOR118_7091284_190618_0101.NBF | (2019/06/18 08:16:00.00 | 52.8 | 78.7 | 48.6 |
| NOR118_7091284_190618_0102.NBF | (2019/06/18 08:21:00.00 | 53.2 | 70.8 | 48.0 |
| NOR118_7091284_190618_0103.NBF | (2019/06/18 08:26:00.00 | 52.4 | 69.2 | 49.1 |
| NOR118_7091284_190618_0104.NBF | (2019/06/18 08:31:00.00 | 51.3 | 65.0 | 47.7 |
| NOR118_7091284_190618_0105.NBF | (2019/06/18 08:36:01.00 | 51.0 | 62.0 | 48.4 |
| NOR118_7091284_190618_0106.NBF | (2019/06/18 08:41:01.00 | 51.9 | 63.3 | 47.3 |
| NOR118_7091284_190618_0107.NBF | (2019/06/18 08:46:01.00 | 49.8 | 61.5 | 46.4 |
| NOR118_7091284_190618_0108.NBF | (2019/06/18 08:51:01.00 | 49.5 | 67.0 | 45.7 |
| NOR118_7091284_190618_0109.NBF | (2019/06/18 08:56:01.00 | 49.4 | 64.6 | 45.8 |
| NOR118_7091284_190618_0110.NBF | (2019/06/18 09:01:02.00 | 49.4 | 68.7 | 45.7 |
| NOR118_7091284_190618_0111.NBF | (2019/06/18 09:06:02.00 | 51.3 | 69.5 | 46.1 |
| NOR118_7091284_190618_0112.NBF | (2019/06/18 09:11:02.00 | 49.7 | 57.8 | 46.7 |
| NOR118_7091284_190618_0113.NBF | (2019/06/18 09:16:02.00 | 53.5 | 63.9 | 49.0 |
| NOR118_7091284_190618_0114.NBF | (2019/06/18 09:21:03.00 | 52.2 | 59.9 | 46.8 |
| NOR118_7091284_190618_0115.NBF | (2019/06/18 09:26:03.00 | 52.0 | 65.1 | 46.6 |
| NOR118_7091284_190618_0116.NBF | (2019/06/18 09:31:03.00 | 47.9 | 59.6 | 45.5 |
| NOR118_7091284_190618_0117.NBF | (2019/06/18 09:36:03.00 | 52.8 | 67.3 | 47.9 |
| NOR118_7091284_190618_0118.NBF | (2019/06/18 09:41:04.00 | 48.6 | 60.9 | 45.9 |
| NOR118_7091284_190618_0119.NBF | (2019/06/18 09:46:04.00 | 51.7 | 67.7 | 47.0 |
| NOR118_7091284_190618_0120.NBF | (2019/06/18 09:51:04.00 | 51.8 | 66.7 | 45.4 |
| NOR118_7091284_190618_0121.NBF | (2019/06/18 09:56:05.00 | 49.3 | 63.6 | 45.0 |
| NOR118_7091284_190618_0122.NBF | (2019/06/18 10:01:05.00 | 49.6 | 62.5 | 46.1 |
| NOR118_7091284_190618_0123.NBF | (2019/06/18 10:06:05.00 | 50.3 | 61.2 | 47.7 |
| NOR118_7091284_190618_0124.NBF | (2019/06/18 10:11:05.00 | 51.4 | 65.3 | 48.3 |
| NOR118_7091284_190618_0125.NBF | (2019/06/18 10:16:05.00 | 49.7 | 64.9 | 47.5 |
| NOR118_7091284_190618_0126.NBF | (2019/06/18 10:21:06.00 | 49.3 | 53.9 | 47.5 |
| NOR118_7091284_190618_0127.NBF | (2019/06/18 10:26:06.00 | 49.3 | 59.2 | 46.6 |

|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7091284_190618_0128.NBF | (2019/06/18 10:31:06.00 | 50.2 | 58.2 | 49.0 |
| NOR118_7091284_190618_0129.NBF | (2019/06/18 10:36:07.00 | 48.0 | 56.9 | 46.0 |
| NOR118_7091284_190618_0130.NBF | (2019/06/18 10:41:07.00 | 54.9 | 74.6 | 49.0 |
| NOR118_7091284_190618_0131.NBF | (2019/06/18 10:46:07.00 | 54.8 | 76.6 | 48.6 |
| NOR118_7091284_190618_0132.NBF | (2019/06/18 10:51:07.00 | 55.2 | 75.3 | 48.4 |
| NOR118_7091284_190618_0133.NBF | (2019/06/18 10:56:07.00 | 54.7 | 76.0 | 47.0 |
| NOR118_7091284_190618_0134.NBF | (2019/06/18 11:01:08.00 | 53.6 | 70.7 | 47.6 |
| NOR118_7091284_190618_0135.NBF | (2019/06/18 11:06:08.00 | 57.0 | 74.1 | 48.4 |
| NOR118_7091284_190618_0136.NBF | (2019/06/18 11:11:08.00 | 53.1 | 77.4 | 49.5 |
| NOR118_7091284_190618_0137.NBF | (2019/06/18 11:16:08.00 | 53.5 | 67.9 | 49.4 |
| NOR118_7091284_190618_0138.NBF | (2019/06/18 11:21:08.00 | 54.6 | 68.5 | 48.8 |
| NOR118_7091284_190618_0139.NBF | (2019/06/18 11:26:09.00 | 52.7 | 67.5 | 48.1 |
| NOR118_7091284_190618_0140.NBF | (2019/06/18 11:31:09.00 | 54.1 | 71.0 | 49.0 |
| NOR118_7091284_190618_0141.NBF | (2019/06/18 11:36:09.00 | 54.8 | 65.7 | 49.3 |
| NOR118_7091284_190618_0142.NBF | (2019/06/18 11:41:09.00 | 55.2 | 71.1 | 47.6 |
| NOR118_7091284_190618_0143.NBF | (2019/06/18 11:46:10.00 | 51.1 | 62.7 | 48.0 |
| NOR118_7091284_190618_0144.NBF | (2019/06/18 11:51:10.00 | 51.5 | 65.8 | 46.8 |
| NOR118_7091284_190618_0145.NBF | (2019/06/18 11:56:10.00 | 51.0 | 63.6 | 48.3 |
| NOR118_7091284_190618_0146.NBF | (2019/06/18 12:01:10.00 | 53.5 | 70.6 | 47.0 |
| NOR118_7091284_190618_0147.NBF | (2019/06/18 12:06:11.00 | 50.9 | 62.7 | 48.6 |
| NOR118_7091284_190618_0148.NBF | (2019/06/18 12:11:11.00 | 51.7 | 62.6 | 47.1 |
| NOR118_7091284_190618_0149.NBF | (2019/06/18 12:16:11.00 | 50.9 | 62.0 | 48.8 |
| NOR118_7091284_190618_0150.NBF | (2019/06/18 12:21:11.00 | 50.1 | 62.9 | 47.2 |
| NOR118_7091284_190618_0151.NBF | (2019/06/18 12:26:12.00 | 51.6 | 66.3 | 46.5 |
| NOR118_7091284_190618_0152.NBF | (2019/06/18 12:31:12.00 | 54.6 | 67.7 | 46.0 |
| NOR118_7091284_190618_0153.NBF | (2019/06/18 12:36:12.00 | 51.4 | 70.1 | 47.2 |
| NOR118_7091284_190618_0154.NBF | (2019/06/18 12:41:12.00 | 51.8 | 67.9 | 48.0 |
| NOR118_7091284_190618_0155.NBF | (2019/06/18 12:46:12.00 | 52.5 | 71.2 | 48.7 |
| NOR118_7091284_190618_0156.NBF | (2019/06/18 12:51:13.00 | 53.3 | 74.7 | 47.5 |
| NOR118_7091284_190618_0157.NBF | (2019/06/18 12:56:13.00 | 52.4 | 69.0 | 47.2 |
| NOR118_7091284_190618_0158.NBF | (2019/06/18 13:01:13.00 | 49.7 | 60.6 | 46.6 |
| NOR118_7091284_190618_0159.NBF | (2019/06/18 13:06:14.00 | 49.6 | 58.0 | 46.9 |
| NOR118_7091284_190618_0160.NBF | (2019/06/18 13:11:14.00 | 51.3 | 60.5 | 48.7 |
| NOR118_7091284_190618_0161.NBF | (2019/06/18 13:16:14.00 | 49.9 | 61.5 | 48.8 |
| NOR118_7091284_190618_0162.NBF | (2019/06/18 13:21:15.00 | 49.2 | 58.6 | 47.7 |
| NOR118_7091284_190618_0163.NBF | (2019/06/18 13:26:15.00 | 50.2 | 66.8 | 47.3 |
| NOR118_7091284_190618_0164.NBF | (2019/06/18 13:31:15.00 | 49.8 | 64.3 | 46.3 |
| NOR118_7091284_190618_0165.NBF | (2019/06/18 13:36:16.00 | 50.7 | 71.1 | 46.5 |
| NOR118_7091284_190618_0166.NBF | (2019/06/18 13:41:16.00 | 54.7 | 72.1 | 47.8 |
| NOR118_7091284_190618_0167.NBF | (2019/06/18 13:46:17.00 | 52.7 | 71.3 | 48.4 |
| NOR118_7091284_190618_0168.NBF | (2019/06/18 13:51:17.00 | 53.3 | 76.9 | 45.7 |
| NOR118_7091284_190618_0169.NBF | (2019/06/18 13:56:17.00 | 52.6 | 71.5 | 46.8 |
| NOR118_7091284_190618_0170.NBF | (2019/06/18 14:01:17.00 | 55.6 | 79.5 | 47.1 |
| NOR118_7091284_190618_0171.NBF | (2019/06/18 14:06:18.00 | 55.3 | 72.7 | 49.1 |

Project: 76 Christchurch Road, Reading  
Client: RYTDAK LTD

Date: 21/06/2019  
Reference: 20190621\_4471\_ENS\_01.docx

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|                                |                         |      |      |      |
|--------------------------------|-------------------------|------|------|------|
| NOR118_7091284_190618_0172.NBF | (2019/06/18 14:11:18.00 | 54.5 | 73.9 | 46.4 |
| NOR118_7091284_190618_0173.NBF | (2019/06/18 14:16:18.00 | 53.3 | 69.9 | 49.2 |
| NOR118_7091284_190618_0174.NBF | (2019/06/18 14:21:19.00 | 56.3 | 78.8 | 47.3 |
| NOR118_7091284_190618_0175.NBF | (2019/06/18 14:26:19.00 | 58.5 | 73.2 | 49.0 |
| NOR118_7091284_190618_0176.NBF | (2019/06/18 14:31:19.00 | 57.4 | 69.3 | 52.4 |