# WELLINGTON QUARRY NORTHERN EXTENSION

## **Noise Impact Assessment**

Prepared for: Tarmac Trading Limited Client Ref: 05731

SLR Ref: 403.064443.00001 Version No: Issued October 2022



## **BASIS OF REPORT**

This document has been prepared by SLR with reasonable skill, care and diligence, and taking account of the manpower, timescales and resources devoted to it by agreement with Tarmac Trading Limited (the Client) as part or all of the services it has been appointed by the Client to carry out. It is subject to the terms and conditions of that appointment.

SLR shall not be liable for the use of or reliance on any information, advice, recommendations and opinions in this document for any purpose by any person other than the Client. Reliance may be granted to a third party only in the event that SLR and the third party have executed a reliance agreement or collateral warranty.

Information reported herein may be based on the interpretation of public domain data collected by SLR, and/or information supplied by the Client and/or its other advisors and associates. These data have been accepted in good faith as being accurate and valid.

The copyright and intellectual property in all drawings, reports, specifications, bills of quantities, calculations and other information set out in this report remain vested in SLR unless the terms of appointment state otherwise.

This document may contain information of a specialised and/or highly technical nature and the Client is advised to seek clarification on any elements which may be unclear to it.

Information, advice, recommendations and opinions in this document should only be relied upon in the context of the whole document and any documents referenced explicitly herein and should then only be used within the context of the appointment.

## CONTENTS

1.0	INTRODUCTION1
1.1	Existing Site 1
1.2	Proposed Development 2
1.3	Planning History
1.4	Scoping with Hereford Council 2
2.0	PLANNING POLICY AND GUIDANCE
2.1	Herefordshire Local Plan, Core Strategy 2011 - 2031
2.2	Planning Practice Guidance – Minerals
2.2.1	Noise Standards for Normal Operations
2.2.2	Noise Standards for Short-Term Activities
2.3	BS5228:2009+A1:2014
3.0	NOISE SURVEY
3.1	Receptors
3.2	Monitoring Locations
3.2.1	Survey Equipment
3.2.2	Weather Conditions
3.3	Survey Results
4.0	ASSESSMENT OF IMPACTS9
4.1	Site Noise Limits
4.2	Noise Modelling
4.3	Predicted Noise Levels
5.0	MITICATION MEASURES 12
<b>J.U</b>	
5.1	General Measures
5.2	Existing Noise Management Plan
6.0	CUMULATIVE ASSESSMENT OF QUARRY NOISE
7.0	CONCLUSION14

## DOCUMENT REFERENCES

TABLES

Table 3-1 Noise-Sensitive Receptors    5
Table 3-2 Details of Noise Monitoring Locations and Periods         5
Table 3-3 Survey Equipment   7
Table 3-4 Summary of Daytime Noise Levels, dB         8
Table 4-1 Noise Limits, free-field, dB       9
Table 4-2 Plant Noise Data    10
Table 4-3 Predicted Site Noise Levels at Receptors, dB

#### FIGURES

Figure 1-1 Location of Proposed Extension Area (Phase 7)	1
Figure 3-1 Noise Monitoring and Receptor Location Plan	6
Figure 6-1 Herefordshire Quarries' Proposed Site Layout, and Phase 7 Location	3

#### APPENDICES

Appendix 01: Glossary of Terminology Appendix 02: Baseline Noise Survey Results

## 1.0 Introduction

SLR Consulting Limited (SLR) has been instructed by Tarmac Trading Limited (Tarmac) to undertake a noise impact assessment for a quarry extension at Wellington Sand and Gravel Quarry, Herefordshire. The proposed extension phase comprises extraction within an area to the north-west of the existing quarry.

This report details the results of a noise assessment and modelling, which has been undertaken in order to assess the potential impact and is in accordance with current planning policy and guidance.

To assist the reader, a glossary of acoustic terminology is provided in **Appendix 01**.

## 1.1 Existing Site

Wellington Quarry is located approximately 6km north of Hereford, within the administrative area of Herefordshire Council. It is bounded by the A49 to the west, the Hereford to Leominster railway line to the east, Marden Lane to the north and by the settlement of Moreton on Lugg to the south.

The quarry has been extracting sand and gravel since 1985, and current planning permissions cover an overall area of approximately 120 hectares; however, only a small area is extracted at any one time. The current permitted hours of operations are during daytime hours only, this being between 07.00 and 19.00 Monday to Friday, and between 08.00 and 13.00 on Saturdays.





## 1.2 Proposed Development

The proposed development comprises an additional extraction phase, in an area of open land to the north-west of the existing site, as identified in Figure 1-1 (labelled as Phase 7).

To the north and east, the site is bordered by open land (which is subject of a separate planning application for mineral extraction by Herefordshire Quarries Ltd, a Company and proposal unrelated to the proposed Tarmac scheme), with Orchard Green and Haywood Industrial Centre beyond. To the south, the site is bordered a restored part of the existing quarry. To the west, the site is bordered by open land, with the A49 beyond.

## 1.3 Planning History

In October 2019, a planning application was submitted to Herefordshire Council for a proposed southern extension at the quarry, and consolidation of existing planning permission. The application was supported by a noise assessment produced by SLR dated August 2019 (ref 405.05731.00106). In December 2020, planning permission was granted (ref P193618/M) for the development, and Condition 16 of the Decision Notice which relates to noise states:

"16. The level of noise for the development hereby permitted shall not exceed 55dB LAeq 1 hour at the closest noise sensitive receptors which are considered to be St Peters Close, Moreton on Lugg and The Vicarage at St Marys Church in Marden. Noise levels at these noise sensitive receptors should not exceed the background noise level LA90 1 hour by more than 10dB (A). The exception to this is that Increased temporary daytime noise limits of up to 70 dB LAeq I hour for up to 8 weeks per year at noise sensitive properties to facilitate site preparation work.

Reasons: In order to protect the amenity of occupiers of nearby properties so as to comply with Policies SS6 and SD1 of the Herefordshire Local Plan Core Strategy 2011-31."

Condition 17 of the Decision Notice also relates to noise and states:

"Prior to the commencement of any works within Phase 2 of the development hereby permitted, a Noise Management Plan shall be submitted to and approved in writing by the Mineral Planning Authority. The plan shall have regard to Annex B of BS5288- 1:2009+A1:2014 as it relates to controls of noise on site. The plan shall include the following measures in particular:

- Provision for periodic review and monitoring of noise from each phase of extraction and amendments to the plan if deemed necessary by either the Mineral Planning Authority or the operators;
- *Mitigation measures proposed in para 7.0 of the noise assessment report.*
- A strategy for detailed communication with the local community, management of complaints and specification of communication methods.

Reasons: In order to protect the amenity of occupiers of nearby properties so as to comply with Policies SS6 and SD1 of the Herefordshire Local Plan Core Strategy 2015 and the National Planning Policy Framework 2019."

With reference to the requirements of Condition 17, SLR submitted a suitable Noise Management Plan in February 2021 (Ref: 403.05731.00169), which was approved by Hereford Council on the 1<sup>st</sup> of June 2021.

## 1.4 Scoping with Hereford Council

SLR has tried to contact the Environmental Health Department of the Hereford Council regarding the proposed survey and assessment methodologies; however, at the time of the writing of this assessment no response has been provided and consequently the assessment has been undertaken in conjunction with the standards and guidance contained within the previous SLR noise assessment for the Southern Extension, as referenced above.

The relevant planning policy and guidance is shown in Section 2.0 of this report.

## 2.0 **Planning Policy and Guidance**

## 2.1 Herefordshire Local Plan, Core Strategy 2011 - 2031

Policy SD1 - Sustainable Design and Energy Efficiency, states that Development proposals should create safe, sustainable, well integrated environments for all members of the community. It goes on to states that all proposals should ensure that "new development does not contribute to, or suffer from, adverse impacts arising from noise".

Policy SS6 – Environmental quality and local distinctiveness, states that development proposals should conserve and enhance those environmental assets that contribute towards the county's distinctiveness, in particular its settlement pattern, landscape, biodiversity and heritage assets and especially those with specific environmental designations. In addition, proposals should maintain and improve the effectiveness of those ecosystems essential to the health and wellbeing of the county's residents and its economy.

## 2.2 Planning Practice Guidance – Minerals

#### 2.2.1 Noise Standards for Normal Operations

The Planning Practice Guidance (PPG) suggests that mineral planning authorities should aim to establish a noise limit through a planning condition. The noise level limit should not exceed the background noise level ( $L_{A90,1hour}$ ) by more than 10dB(A) between 0700 and 1900 hours.

Furthermore, the total noise from the operations should not exceed 55dB  $L_{Aeq,1hour}$  free field at the noise sensitive receptors. Where the site noise has a tonal or impulsive characteristic, for example, from a reversing alarm, it may be appropriate to set a specific limit which is independent of the background noise limit (e.g.  $L_{Amax}$  in a specific octave or third octave frequency band).

In addition, PPG states that care should be taken, however, to avoid the noise limits being taken as absolute fixed thresholds. A particular wind direction, or temperature inversion may cause the noise at some receptors to increase above any noise level limits for a day, or a few hours. Any noise limits should be considered over a broader time period of a few weeks/months.

#### 2.2.2 Noise Standards for Short-Term Activities

Some site activities, such as soil stripping, construction and removal of baffle mounds etc, may cause a short-term increase in the noise at existing sensitive receptors. An increase in the daytime noise limit of up to 70 dB  $L_{Aeq,1hour}$  for periods of up to 8 weeks in a year should be considered to allow for essential site preparation and restoration works where it is clear that the works will bring longer term benefits.

Where works will continue for longer than 8 weeks, then a lower noise limit should be considered. In addition, in exceptional cases, a higher noise limit, above 70dB  $L_{Aeq,1hour}$  may be appropriate for a very short time period where there is no viable alternative.

## 2.3 BS5228:2009+A1:2014

Noise levels within and around the application site are likely to change due to the combinations and locations of fixed and mobile plant. The key variables influencing the noise levels at each NSR are:

- The sound power level (SWL) of the fixed and mobile plant being operated;
- The number of noise sources operating at any one time;
- The duration of operations;



- The distance between the noise sources and the receptors
- The presence of screening mounds, buildings and/or barriers
- The potential reflection of sound; and
- Ground attenuation.

BS5228-1:2009+A1:2014 code of practice for noise and vibration control on construction and open sites – Part 1: Noise sets out a methodology for predicting noise levels at noise-sensitive properties generated by a wide variety of construction and related activities which are shared with mineral extraction sites. As such, the calculation methodologies it contains can be used to predict noise levels arising from operations within the application site. The noise prediction methods used in this assessment have been based on those outlined in BS5228-1:2009+A1:2014, which incorporates guidance on the attenuation of noise due to the effect of barriers and the absorbing effect of soft ground.

Annex B of BS5228-1:2009+A1:2014 provides guidance on noise sources, remedies and their effectiveness, i.e. methods of reducing noise levels from plant, such as the use of attenuators, the use of acoustic enclosures and/or the replacement of inherently noisy plant with quieter alternatives.

In addition, Annex C of the standard contains several tables detailing the sound power levels of plant and equipment which can be found on mineral extraction sites.

## 3.0 Noise Survey

### 3.1 Receptors

For the purpose of this assessment, the occupants of the nearest residential properties are considered to be the receptors most likely to be affected by operations within the proposed extension phase. An impact at other receptors may be experienced but will be less than the assessed locations. Details of the noise sensitive receptors (NSR) used for the purposes of this assessment are set out in Table 3-1 and shown on Figure 3-1.

#### Table 3-1 Noise-Sensitive Receptors

Receptor	Description	Distance to Site Boundary (m)	Coordinates (x, y)
NSR1	Bridge House, Wellington, Hereford HR4 8BA	150	350024, 248115
NSR2	Almshouses, Wellington, Hereford HR4 8DX	150	350020, 247838
NSR3	Yew Tree House, Wellington Marsh, Wellington, HR4 8DT	340	350014, 247480

## 3.2 Monitoring Locations

Between 25<sup>th</sup> August 2022 and 2<sup>nd</sup> September 2022, SLR undertook a baseline noise survey at three monitoring locations, during both weekday and weekends periods. The locations are considered to be representative of the noise sensitive receptors closest to the proposed extension phase.

The monitoring locations are detailed on Table 3-2 and shown on Figure 3-1.

# Table 3-2Details of Noise Monitoring Locations and Periods

Location	Description	Start	End
Located to the north-west of the proposed site, approximately 8m from the carriageway of the A49. This location is representative of NSR1 (i.e. Bridge House).		Thursday 25/08/2022 17:30	Friday 02/09/2022 12:15
Location 2	To the west of the proposed site, approximately 15m from the carriageway of the A49. This location is representative of NSR2 (i.e. Almshouses).	Thursday 25/08/2022 16:45	Tuesday 30/08/2022 18:45
Location 3	To the south-west of the proposed site, approximately 20m from the carriageway of the A49. This location is representative of NSR3 (i.e. Yew Tree House).	Thursday 25/08/2022 16:15	Friday 02/09/2022 11:00



Figure 3-1 Noise Monitoring and Receptor Location Plan

#### 3.2.1 Survey Equipment

The equipment used for the baseline noise survey is detailed below in Table 3-3. The sound level meter was field-calibrated before and after the measurements using an acoustic calibrator and no significant drifts were observed. The calibration chain is traceable via the United Kingdom Accreditation Service to national standards held at the Nation Physical Laboratory.



#### Table 3-3 Survey Equipment

Location	Equipment	Serial Number
Location 1	Cirrus CR:171B Class 1 Sound Level Meter	G0302667
	Cirrus CR:515 Acoustic Calibrator	94806
Location 2	Cirrus CR:171B Class 1 Sound Level Meter	G301839
Location 2	Cirrus CR:515 Acoustic Calibrator	94806
Location 2	Rion NL-52 Class 1 Sound Level Meter	00976174
Location 5	Rion NC-74 Acoustic Calibrator	34478298

The microphone of the sound level meter was positioned at 1.5m above the ground in free-field conditions, i.e. at least 3.5m from the closest vertical reflecting surface.

The measurement protocol consisted of continuous monitoring with the following noise indices logged every 15-minutes.

- L<sub>Aeq</sub> The A-weighted equivalent continuous noise level over the measurement period.
- L<sub>A90</sub> The A-weighted noise level exceeded for 90% of the measurement period.
- L<sub>A10</sub> The A-weighted noise level exceeded for 10% of the measurement period.
- L<sub>Amax,f</sub> The maximum A-weighted noise level during the measurement period.

#### **3.2.2** Weather Conditions

Prior to the start of the baseline noise survey, the weather forecast for the intended survey period was checked to confirm that suitable conditions were to be expected for the duration of the monitoring, with wind speeds less than 5<sup>ms-1</sup> and with no rain.

### 3.3 Survey Results

For the purpose of this assessment, the noise data has been split into the following periods, which reflect the permitted hours of operation at the existing quarry:

- Monday to Friday 0700 to 1900 hours
- Saturday 0800 to 1300 hours

It should be noted that while all the monitoring locations are located close the existing quarry site, and noise from existing Site operations had the potential to affect the measured levels, the dominant source of noise at all monitoring locations (and receptors), was road traffic on the A49. Therefore, noise from existing quarry operations is not considered likely to influence the measured noise levels, and the data is considered robust for the purpose of this assessment.

Table 3-4 details the average ambient  $L_{Aeq}$  and background  $L_{A90}$  noise level, at each monitoring location, on each day. Furthermore, the average weekday and weekend periods are provided for reference, and the monitoring data is set out in full in Appendix 02.

Dete	Location 1		Location 2		Location 3	
Date	L <sub>Aeq</sub>	L <sub>A90</sub>	L <sub>Aeq</sub>	L <sub>A90</sub>	L <sub>Aeq</sub>	L <sub>A90</sub>
Thursday 25.08.2022	73	59	63	53	59	42
Friday 26.08.2022	73	52	60	44	59	40
Saturday 27.08.2022	72	54	60	47	58	39
Monday 29.08.2022	72	53	60	49	57	40
Tuesday 30.08.2022	74	57	62	52	58	43
Wednesday 31.08.2022	73	57	*	*	58	43
Thursday 01.09.2022	74	57	*	*	59	43
Friday 02.09.2022	73	55	*	*	59	41
Weekday Average (0700-1900)	73	56	61	50	58	42
Weekend Average (0800-1300)	72	54	60	47	58	39
* No data due to technical error with equipment						

Table 3-4Summary of Daytime Noise Levels, dB

\* No data due to technical error with equipment.



## 4.0 Assessment of Impacts

### 4.1 Site Noise Limits

PPG minerals states that the site noise level limit should not exceed the background noise level ( $L_{A90,1hour}$ ) by more than 10dB, but also that the total site noise should not exceed 55dB  $L_{Aeq,1hour}$ . Furthermore, a higher noise limit of up to 70 dB should be considered to allow for temporary site operations.

Based on the measured background noise levels in Table 3-4, the site noise limits have been set at each of the NSRs have been set reference to PPG Minerals, as detailed in Table 4-1 below. In order to provide a robust assessment, the lower background noise level measured during the weekend period, shall be used to establish the noise limit.

#### Table 4-1 Noise Limits, free-field, dB

Receptor	Average Measured Background Noise Level, dB L <sub>A90</sub>	Noise Limit for Normal Operations
NSR1	54	55
NSR2	47	55
NSR3	39	49

## 4.2 Noise Modelling

The noise emissions from the on-site operations have been modelled using CadnaA noise prediction software. The model calculates noise propagation to the methodologies contained within BS5228:2009+A1:2014 and the following modelling attributes have been used:

- Ground absorption factor of 0.8 (predominately soft ground).
- Building reflection factor of 2.
- Receiver height of 1.5m (i.e. ground floor height).

The assessment has considered the following operations within the proposed extension phase:

- Excavator at the working face during mineral extraction;
- A Dump truck transporting excavated material to the (existing) processing plant, along an internal haul route;
- Pioneer Pump Dewatering pump located on the south-eastern boundary of the extension area

It is understood that operations will not occur in any other phases whilst extraction operations are occurring in the proposed extension area. However, operations to support mineral exports will still occur within the processing area (i.e. crushing and screening)

Therefore, noise from the processing area has also been included within the model and is based upon the model which was prepared for as part of the 2019 noise report, for the now consented southern extension (as discussed in Section 1.3) as it is understood that processing methods have remain unchanged.

The plant which will be used within the extraction, and processing area, together with the sound power levels and on-times which have been used within the noise model, are detailed in Table 4-2 below.

Та	ble 4-	2
Plant	Noise	Data

Plant Item	Quantity	On-Time	Source Type	Source Height	Sound Power Level (dB L <sub>WA</sub> )	L <sub>WA</sub> Data Source
Tracked Excavator (52 T Liu Gong extended dipper arm)	1	100%	Point Source	1.5m	108	Technical data sheet
Dumper Truck (Bell 30T ADT)	1	8 Movements Per Hour	Moving Point Source	1.5m	109	BS5228 Table C.8 Ref 16
Dewatering Pump (Pioneer 200SL)	1	100%	Point Source	0.5m	90	Technical data sheet
		Proce	ssing Area			
Screen	1	100%	Point Source	4m	102	
Crusher	1	100%	Point Source	2m	95	
Falling stones from Conveyors	3	100%	Point Source	4m	96	
Dropping Sand from Conveyor	1	100%	Point Source	4m	88	Measured as
Main Conveyor	1	100%	Line Source	4m	92	SLR report
Crush Conveyor	1	100%	Line Source	4m	95	
Conveyors	5	100%	Line Sources	4m	88	
Heavy Goods vehicles leaving Site	N/A	4 movements per hour	Line Source	1	115	

## 4.3 Predicted Noise Levels

The predicted noise level at each receptor is based on the plant noise data presented in Table 4-2, and represent a worst-case scenario in terms of plant locations and vehicle movements, with operations occurring at the closest point within the extraction area. In addition, all predictions are based on plant operating at the existing ground level and for 100% of the time. The predicted daytime noise levels are shown Table 4-3, together with an assessment against PPG noise limits.

Receptor	Predicted Noise Level During Normal Operations, L <sub>Aeq 1hour</sub>	Background Noise Level, LA90	Noise Limit for Normal Operations	Difference
NSR1	52	54	55	-3
NSR2	54	47	55	-1
NSR3	46	39	49	-3

Table 4-3Predicted Site Noise Levels at Receptors, dB

Table 4-3 shows that without mitigation, noise from site operations within the proposed extension phase will not exceed the noise limits imposed by the current planning permission for quarrying within the existing Quarry, where those limits are founded upon the limits recommended by PPG Minerals.

It should be noted that the figures shown in Table 4-3 represent the worst-case scenario when quarry activities are closest to receptor location and taking place a ground level without the benefit of any screening and taking place for 100% of the permitted time. In practical terms, noise levels will be lower than those stated above and therefore the impact will be reduced.

Additionally, Table 4-3 demonstrates that site noise levels are significantly below the higher temporary limit of 70dB. With reference to the PPG, this higher limit is appropriate for short-term and temporary activities, which have longer-term environmental benefits, and would therefore be appropriate for short-term activities such as soil stripping and restoration.



## 5.0 **Mitigation Measures**

While the assessment has shown that mitigation measures are not required, and noise from site operations within the proposed extension phase will not exceed the noise limits recommended by PPG Minerals (and the current planning permission), a number of general mitigation measures are outlined below to further reduce the potential for noise impacts.

### 5.1 General Measures

The layout of the site has been designed in a manner which offers maximum protection to the amenity of the closest receptors, using working faces, soil bunds and surrounding topography between working areas and receptor locations. However, mineral extraction by their nature generate noise due to the use of heavy machinery. Good site management practices and other specific measures provide noise mitigation.

These measures include:

- Activities within the site undertaken in locations where noise attenuation from landforms maximise the benefit to noise-sensitive properties;
- All roads to be kept clean and maintained in a good state of repair to avoid rattle from vehicles;
- Plant and materials to be operated and handled in a manner that minimises noise, e.g. no unnecessary revving of engines, minimisation of drop heights;
- All mobile plant to have noise emission levels that comply with the limiting levels defined in European Commission Directive 2000/14/EC<sup>1</sup> and any subsequent amendments;
- Consideration of the recommendations within Annex B of BS5228-1:2009+A1:2014 with respect to noise sources, remedies and their effectiveness, i.e. methods of reducing noise levels from construction plant;
- Plant to be started up sequentially, rather than all together;
- Plant to be subject to regular maintenance and maintained in good working order to meet manufacturers' noise rating levels;
- No queuing by vehicles on the public highway with engines idling; and
- Reversing alarms to incorporate one of the following features where practicable directional sounders, broadband signals, self-adjusting sounders or flashing warning lights.

### 5.2 Existing Noise Management Plan

In addition to the general measures listed above the Site would continue to operate with reference to the provisions outlined in the existing Noise Management Plan (NMP) (Ref: 403.05731.00169) submitted in conjunction with Condition 17 of the planning permission.

It is also envisaged that the NMP would be updated to include the associated works within Phase 7 and a noise monitoring procedure at the Noise Sensitive Receptors (NSR's) located close to Phase 7.

<sup>&</sup>lt;sup>1</sup> Directive 2000/14/EC – Noise – Equipment for Use Outdoors (of the European Parliament of the Council of 8 May 2000 on the approximation of the laws of the Member States relating to noise emissions in the environment by equipment for use outdoors)



## 6.0 **Cumulative Assessment of Quarry Noise**

In addition to quarrying noise on the proposed extension phase, the receptors may potentially be impacted by quarrying noise from another proposed quarry site located on the land to the north, as shown on Figure 6-1.

At the time of writing, a planning application (ref P220769/M) has been submitted to Herefordshire Council in March 2022 and is currently awaiting determination. The application was supported by a noise assessment report, prepared by LF Acoustics dated January 2022 (ref Dinmore Noise v3.1 280122.docx).

The LF Acoustics report assesses the potential impact from quarrying operations at several receptors which surround the site, including several properties which are labelled as Wellington Bridge, which is in a similar location to NSR1 (i.e. Bridge House).

At this receptor, the report states the following:

"Noise levels during the working of Phase 1, including the operation of the processing plant are anticipated to be 48 dB LAeq, 1 hour, thus remaining below the normal working limit.

...noise levels during the working and restoration of Phases 2 and 3 are not anticipated to exceed 52 dB L<sub>Aeq, 1 hour</sub>, thus remaining below the normal working limit of 55 dB L<sub>Aeq, 1 hour</sub> at this location and thus fully compliant with the requirements of the current planning guidance."

The LF Acoustics report indicates, that in the worst-case scenario site noise is not expected to exceed 52dB. Table 4-3 of this report, also predicts that worst case site noise levels at the same receptor (NSR1), would also be 52dB. Should the two 'worst case' scenarios occur simultaneously, the cumulative quarry noise level at NSR1 would be 55dB L<sub>Aeq</sub>, which would not exceed the PPG noise limit at this location.

In addition, it should be noted that this noise level is equal to the measured background noise, where the ambient noise at this receptor is dominated by road traffic. Therefore, for the majority of the working day, quarry noise (from both sites) is unlikely to be audible and will not create an adverse impact on amenity.





## 7.0 **Conclusion**

SLR Consulting Limited (SLR) has been instructed by Tarmac Trading Limited (Tarmac) to undertake a noise impact assessment for a quarry extension at Wellington Sand and Gravel Quarry, Herefordshire. The proposed extension phase comprises extraction within an area to the north-west of the existing quarry.

This report details the results of a noise assessment and modelling, which has been undertaken in order to assess the potential impact and is in accordance with current planning policy and guidance.

Between 25<sup>th</sup> August and 2<sup>nd</sup> September 2022, SLR undertook a baseline noise survey at three monitoring locations, which are considered to be representative of the noise sensitive receptors closest to the proposed extension phase.

Based on the measured baseline noise levels, noise limits were set for normal quarry operations, with reference to PPG Minerals.

The noise emissions from the on-site operations, and mineral processing, have been modelled using noise prediction software, which uses the calculation methodologies contained within BS5228:2009+A1:2014.

The assessment shows that noise from site operations within the proposed extension phase will not exceed the noise limits recommended by PPG Minerals, and site-specific mitigation measures are not required; however, a number of generic measures have been recommended to further reduce the potential for noise impacts.

The cumulative noise assessment has shown that worst-case operations from the separately proposed quarry site located to the north and the extension to Wellington quarry would not exceed the 55dB  $L_{Aeq}$ , PPG noise limit at the most effected NSR.

# **APPENDIX 01**

Glossary of Terminology

In order to assist the understanding of acoustic terminology and the relative change in noise, the following background information is provided.

The human ear can detect a very wide range of pressure fluctuations, which are perceived as sound. In order to express these fluctuations in a manageable way, a logarithmic scale called the decibel, or dB scale is used. The decibel scale typically ranges from 0dB (the threshold of hearing) to over 120dB. An indication of the range of sound levels commonly found in the environment is given in the following table.

# Table 01-1 Sound Levels Commonly Found in the Environment

Sound Level	Location
OdB(A)	Threshold of hearing
20 to 30dB(A)	Quiet bedroom at night
30 to 40dB(A)	Living room during the day
40 to 50dB(A)	Typical office
50 to 60dB(A)	Inside a car
60 to 70dB(A)	Typical high street
70 to 90dB(A)	Inside factory
100 to 110dB(A)	Burglar alarm at 1m away
110 to 130dB(A)	Jet aircraft on take off
140dB(A)	Threshold of Pain

#### **Acoustic Terminology**

- **dB (decibel)** The scale on which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the root-mean-square pressure of the sound field and a reference pressure (2x10<sup>-5</sup>Pa).
- **dB(A)** A-weighted decibel. This is a measure of the overall level of sound across the audible spectrum with a frequency weighting (i.e. 'A' weighting) to compensate for the varying sensitivity of the human ear to sound at different frequencies.
- LAeqLAeq is defined as the notional steady sound level which, over a stated period of time, would<br/>contain the same amount of acoustical energy as the A weighted fluctuating sound measured<br/>over that period.
- L<sub>10</sub> & L<sub>90</sub> If a non-steady noise is to be described it is necessary to know both its level and the degree of fluctuation. The L<sub>n</sub> indices are used for this purpose, and the term refers to the level exceeded for n% of the time. Hence L<sub>10</sub> is the level exceeded for 10% of the time and as such can be regarded as the 'average maximum level'. Similarly, L<sub>90</sub> is the 'average minimum level' and is often used to describe the background noise. It is common practice to use the L<sub>10</sub> index to describe traffic noise.
- LAFmaxLAFmax is the maximum A weighted sound pressure level recorded over the period stated. LAmax<br/>is sometimes used in assessing environmental noise where occasional loud noises occur, which<br/>may have little effect on the overall Leq noise level but will still affect the noise environment.<br/>Unless described otherwise, it is measured using the 'fast' sound level meter response.



## **APPENDIX 02**

Noise Monitoring Results

Location	1			
Time	L <sub>Aeq</sub>	Lamax,f	L <sub>A10</sub>	La90
Thursday 25/08/2022 17:33	74.0	96.2	78.2	59.1
Thursday 25/08/2022 17:45	73.9	87.6	78.5	60.5
Thursday 25/08/2022 18:00	73.6	88.2	77.6	60.2
Thursday 25/08/2022 18:15	72.9	86.7	77.4	57.6
Thursday 25/08/2022 18:30	72.9	87.4	77.4	58.3
Thursday 25/08/2022 18:45	72.4	86.3	76.9	56.9
Friday 26/08/2022 07:00	73.0	88.1	77.5	53.0
Friday 26/08/2022 07:15	73.1	85.8	78.1	48.6
Friday 26/08/2022 07:30	74.0	86.1	78.7	53.8
Friday 26/08/2022 07:45	74.1	86.2	79.0	53.1
Friday 26/08/2022 08:00	73.8	85.9	78.6	52.6
Friday 26/08/2022 08:15	73.8	86.5	78.4	54.4
Friday 26/08/2022 08:30	73.4	85.6	78.0	53.7
Friday 26/08/2022 08:45	72.2	86.5	76.2	51.4
Friday 26/08/2022 09:00	72.6	87.1	77.2	52.3
Friday 26/08/2022 09:15	72.6	85.4	77.5	49.3
Friday 26/08/2022 09:30	72.8	88.6	77.3	52.3
Friday 26/08/2022 09:45	72.5	86.1	77.2	52.6
Friday 26/08/2022 10:00	72.8	84.8	77.5	53.2
Friday 26/08/2022 10:15	72.5	87.0	77.4	49.6
Friday 26/08/2022 10:30	73.4	86.4	78.1	53.4
Friday 26/08/2022 10:45	72.6	84.6	77.4	47.9
Friday 26/08/2022 11:00	72.6	85.0	77.1	54.0
Friday 26/08/2022 11:15	73.5	85.8	78.2	45.4
Friday 26/08/2022 11:30	73.4	85.9	77.8	55.7
Friday 26/08/2022 11:45	72.2	84.6	76.9	50.6
Friday 26/08/2022 12:00	72.8	86.9	77.4	52.1
Friday 26/08/2022 12:15	73.1	86.7	77.6	51.3
Friday 26/08/2022 12:30	72.9	85.0	77.4	55.5
Friday 26/08/2022 12:45	72.1	86.7	76.8	53.4

Friday 26/08/2022 13:00	72.6	85.2	77.0	50.8
Friday 26/08/2022 13:15	73.1	87.4	77.5	58.1
Friday 26/08/2022 13:30	73.2	86.0	77.6	56.5
Friday 26/08/2022 13:45	72.9	85.0	77.2	54.2
Friday 26/08/2022 14:00	73.7	85.9	77.9	59.5
Friday 26/08/2022 14:15	72.5	86.7	77.1	54.2
Friday 26/08/2022 14:30	72.4	83.9	77.4	52.2
Friday 26/08/2022 14:45	72.2	87.2	76.8	52.4
Friday 26/08/2022 15:00	73.1	90.0	77.7	54.2
Friday 26/08/2022 15:15	73.5	86.9	77.9	54.5
Friday 26/08/2022 15:30	73.2	88.4	77.7	53.3
Friday 26/08/2022 15:45	73.3	87.1	77.9	51.4
Friday 26/08/2022 16:00	74.0	92.8	78.4	55.1
Friday 26/08/2022 16:15	73.2	86.4	78.0	52.2
Friday 26/08/2022 16:30	73.6	88.1	78.0	56.6
Friday 26/08/2022 16:45	72.5	85.5	77.3	50.4
Friday 26/08/2022 17:00	72.9	86.9	77.7	53.1
Friday 26/08/2022 17:15	73.2	87.8	77.8	53.9
Friday 26/08/2022 17:30	73.1	91.3	77.8	49.7
Friday 26/08/2022 17:45	72.6	86.0	77.4	49.5
Friday 26/08/2022 18:00	72.6	87.6	77.2	51.4
Friday 26/08/2022 18:15	72.2	87.3	76.7	48.7
Friday 26/08/2022 18:30	73.1	87.7	77.8	53.2
Friday 26/08/2022 18:45	73.0	95.1	77.6	43.7
Saturday 27/08/2022 08:00	70.2	85.7	73.8	48.6
Saturday 27/08/2022 08:15	71.2	86.8	75.6	47.8
Saturday 27/08/2022 08:30	72.1	88.3	76.6	52.1
Saturday 27/08/2022 08:45	72.0	86.1	76.6	52.4
Saturday 27/08/2022 09:00	72.0	86.6	76.5	52.4
Saturday 27/08/2022 09:15	73.2	87.3	77.9	56.3
Saturday 27/08/2022 09:30	72.6	86.3	77.2	57.0
Saturday 27/08/2022 09:45	72.8	89.6	77.6	56.4
Saturday 27/08/2022 10:00	72.0	86.4	76.7	55.7

Saturday 27/08/2022 10:15	72.7	86.8	77.2	57.2
Saturday 27/08/2022 10:30	73.4	83.6	78.0	59.4
Saturday 27/08/2022 10:45	72.9	89.8	77.3	58.5
Saturday 27/08/2022 11:00	72.9	86.8	77.5	56.3
Saturday 27/08/2022 11:15	72.8	86.6	77.6	52.3
Saturday 27/08/2022 11:30	72.8	86.5	77.6	51.1
Saturday 27/08/2022 11:45	73.2	88.3	77.5	56.7
Saturday 27/08/2022 12:00	72.1	85.4	77.2	51.2
Saturday 27/08/2022 12:15	72.5	84.6	77.5	52.4
Saturday 27/08/2022 12:30	72.4	86.3	77.0	55.4
Saturday 27/08/2022 12:45	73.5	86.8	78.0	59.4
Monday 29/08/2022 07:00	68.2	84.9	71.5	40.1
Monday 29/08/2022 07:15	68.2	85.4	71.1	45.9
Monday 29/08/2022 07:30	69.7	87.5	73.2	47.4
Monday 29/08/2022 07:45	69.8	84.4	73.7	47.8
Monday 29/08/2022 08:00	70.2	84.5	73.8	53.2
Monday 29/08/2022 08:15	69.6	85.1	73.0	49.1
Monday 29/08/2022 08:30	71.3	88.0	75.3	49.3
Monday 29/08/2022 08:45	71.4	88.8	74.8	51.9
Monday 29/08/2022 09:00	70.4	85.4	74.6	44.5
Monday 29/08/2022 09:15	71.5	86.2	75.5	52.0
Monday 29/08/2022 09:30	72.6	86.9	77.4	53.6
Monday 29/08/2022 09:45	71.1	85.7	75.5	50.4
Monday 29/08/2022 10:00	71.1	85.6	75.9	50.5
Monday 29/08/2022 10:15	72.3	85.5	77.4	53.8
Monday 29/08/2022 10:30	72.9	85.2	77.8	53.0
Monday 29/08/2022 10:45	71.7	85.6	76.5	50.1
Monday 29/08/2022 11:00	72.3	84.2	77.1	50.3
Monday 29/08/2022 11:15	73.2	89.8	77.8	54.6
Monday 29/08/2022 11:30	72.7	85.4	77.7	55.7
Monday 29/08/2022 11:45	73.1	86.9	77.6	53.8
Monday 29/08/2022 12:00	73.1	88.3	77.9	51.7
Monday 29/08/2022 12:15	73.4	91.8	78.0	54.9



Monday 29/08/2022 12:30	73.1	85.6	77.7	57.6
Monday 29/08/2022 12:45	73.2	84.0	77.8	58.7
Monday 29/08/2022 13:00	73.0	87.2	77.5	56.4
Monday 29/08/2022 13:15	73.8	86.8	78.2	57.7
Monday 29/08/2022 13:30	73.0	84.8	77.7	57.2
Monday 29/08/2022 13:45	73.2	84.4	77.8	57.5
Monday 29/08/2022 14:00	73.6	84.8	78.4	58.8
Monday 29/08/2022 14:15	73.6	85.2	78.2	59.0
Monday 29/08/2022 14:30	73.8	86.5	78.5	59.5
Monday 29/08/2022 14:45	72.8	86.1	77.6	55.8
Monday 29/08/2022 15:00	71.9	89.5	76.6	58.3
Monday 29/08/2022 15:15	72.5	85.7	77.4	55.8
Monday 29/08/2022 15:30	72.9	85.2	77.8	54.5
Monday 29/08/2022 15:45	74.1	91.5	78.7	57.9
Monday 29/08/2022 16:00	73.6	89.4	78.4	57.0
Monday 29/08/2022 16:15	72.8	85.6	77.9	54.5
Monday 29/08/2022 16:30	73.5	86.9	78.3	58.0
Monday 29/08/2022 16:45	73.8	85.8	78.6	53.9
Monday 29/08/2022 17:00	73.4	87.3	78.3	56.7
Monday 29/08/2022 17:15	73.4	88.2	78.1	54.4
Monday 29/08/2022 17:30	73.4	85.4	78.5	55.9
Monday 29/08/2022 17:45	73.5	88.4	78.2	53.9
Monday 29/08/2022 18:00	73.6	99.9	78.3	57.2
Monday 29/08/2022 18:15	73.5	89.2	78.1	44.3
Monday 29/08/2022 18:30	71.5	86.3	75.9	50.2
Monday 29/08/2022 18:45	72.3	86.6	77.4	48.9
Monday 29/08/2022 19:00	71.0	87.0	75.3	52.6
Tuesday 30/08/2022 07:00	72.4	85.6	77.5	53.6
Tuesday 30/08/2022 07:15	74.7	86.0	79.6	57.8
Tuesday 30/08/2022 07:30	75.1	87.2	79.7	57.6
Tuesday 30/08/2022 07:45	74.5	85.9	79.6	57.6
Tuesday 30/08/2022 08:00	74.6	85.7	79.1	57.9
Tuesday 30/08/2022 08:15	74.9	90.1	79.4	60.7



Tuesday 30/08/2022 08:30	75.3	87.0	79.8	57.2
Tuesday 30/08/2022 08:45	74.5	88.6	79.1	57.3
Tuesday 30/08/2022 09:00	73.6	86.7	78.3	56.4
Tuesday 30/08/2022 09:15	73.4	86.4	78.3	57.1
Tuesday 30/08/2022 09:30	73.2	87.5	77.8	56.1
Tuesday 30/08/2022 09:45	74.2	87.0	78.7	60.5
Tuesday 30/08/2022 10:00	73.7	86.8	78.3	54.4
Tuesday 30/08/2022 10:15	74.1	93.8	78.3	58.1
Tuesday 30/08/2022 10:30	74.0	86.9	78.5	60.0
Tuesday 30/08/2022 10:45	73.2	85.6	78.0	57.2
Tuesday 30/08/2022 11:00	73.5	88.0	78.1	57.0
Tuesday 30/08/2022 11:15	73.5	86.2	78.0	59.9
Tuesday 30/08/2022 11:30	74.2	86.8	78.5	59.9
Tuesday 30/08/2022 11:45	72.8	85.0	77.4	55.7
Tuesday 30/08/2022 12:00	72.9	86.6	77.5	57.6
Tuesday 30/08/2022 12:15	72.2	85.0	77.0	55.0
Tuesday 30/08/2022 12:30	73.1	87.3	77.6	57.9
Tuesday 30/08/2022 12:45	72.9	86.1	77.4	56.2
Tuesday 30/08/2022 13:00	73.9	87.4	78.5	58.1
Tuesday 30/08/2022 13:15	73.3	87.5	77.9	55.6
Tuesday 30/08/2022 13:30	73.3	84.6	78.1	57.8
Tuesday 30/08/2022 13:45	73.1	86.7	77.6	57.8
Tuesday 30/08/2022 14:00	73.5	86.7	77.7	58.3
Tuesday 30/08/2022 14:15	72.9	90.1	77.2	56.5
Tuesday 30/08/2022 14:30	72.5	86.4	77.2	54.6
Tuesday 30/08/2022 14:45	72.9	87.6	77.6	54.9
Tuesday 30/08/2022 15:00	72.6	85.1	77.3	56.9
Tuesday 30/08/2022 15:15	72.4	86.6	77.2	54.1
Tuesday 30/08/2022 15:30	73.5	86.5	77.9	58.4
Tuesday 30/08/2022 15:45	72.9	84.4	77.6	58.2
Tuesday 30/08/2022 16:00	73.4	88.6	77.9	56.1
Tuesday 30/08/2022 16:15	73.9	86.5	78.4	58.4
Tuesday 30/08/2022 16:30	73.9	85.4	78.4	59.6
Tuesday 30/08/2022 16:45	73.8	87.7	78.5	57.4



Tuesday 30/08/2022 17:00	74.1	87.3	78.7	60.2
Tuesday 30/08/2022 17:15	74.6	86.2	79.1	60.2
Tuesday 30/08/2022 17:30	74.2	89.2	79.0	58.6
Tuesday 30/08/2022 17:45	74.0	86.5	78.7	57.5
Tuesday 30/08/2022 18:00	73.0	87.1	77.3	55.5
Tuesday 30/08/2022 18:15	73.3	85.6	78.0	54.2
Tuesday 30/08/2022 18:30	72.9	87.9	77.4	56.4
Tuesday 30/08/2022 18:45	72.9	86.7	77.8	54.5
Tuesday 30/08/2022 19:00	71.9	93.9	75.7	48.6
Wednesday 31/08/2022 07:00	73.1	85.9	78.1	50.0
Wednesday 31/08/2022 07:15	74.0	87.8	79.1	56.1
Wednesday 31/08/2022 07:30	75.0	86.4	79.6	59.0
Wednesday 31/08/2022 07:45	74.5	87.8	79.0	56.0
Wednesday 31/08/2022 08:00	74.6	88.2	79.2	58.0
Wednesday 31/08/2022 08:15	74.3	87.4	78.9	56.9
Wednesday 31/08/2022 08:30	73.8	86.2	78.3	56.1
Wednesday 31/08/2022 08:45	73.7	86.4	78.4	55.8
Wednesday 31/08/2022 09:00	73.3	86.2	77.9	58.7
Wednesday 31/08/2022 09:15	74.0	89.0	78.5	56.1
Wednesday 31/08/2022 09:30	73.5	92.3	77.8	56.2
Wednesday 31/08/2022 09:45	73.8	85.6	78.5	57.0
Wednesday 31/08/2022 10:00	73.0	86.7	77.7	56.3
Wednesday 31/08/2022 10:15	73.3	85.7	78.0	56.3
Wednesday 31/08/2022 10:30	72.4	84.0	77.1	55.3
Wednesday 31/08/2022 10:45	73.0	88.2	77.5	55.8
Wednesday 31/08/2022 11:00	72.1	87.0	76.7	55.9
Wednesday 31/08/2022 11:15	73.2	87.8	77.9	57.2
Wednesday 31/08/2022 11:30	73.4	87.1	77.8	57.9
Wednesday 31/08/2022 11:45	73.0	86.7	77.4	55.4
Wednesday 31/08/2022 12:00	73.1	85.4	77.7	57.7
Wednesday 31/08/2022 12:15	73.1	86.4	77.7	58.6
Wednesday 31/08/2022 12:30	73.3	87.4	77.7	56.3
Wednesday 31/08/2022 12:45	73.2	86.4	77.8	57.1



Wednesday 31/08/2022 13:00	73.7	89.0	78.3	58.5
Wednesday 31/08/2022 13:15	72.2	84.0	77.0	54.5
Wednesday 31/08/2022 13:30	73.7	87.5	78.4	55.6
Wednesday 31/08/2022 13:45	73.0	85.7	77.4	58.6
Wednesday 31/08/2022 14:00	73.6	85.0	78.2	60.6
Wednesday 31/08/2022 14:15	72.9	85.9	77.4	57.0
Wednesday 31/08/2022 14:30	73.4	87.7	78.0	57.0
Wednesday 31/08/2022 14:45	72.1	85.2	76.5	55.8
Wednesday 31/08/2022 15:00	72.8	85.8	77.4	51.5
Wednesday 31/08/2022 15:15	73.2	94.1	77.4	56.0
Wednesday 31/08/2022 15:30	73.8	87.3	78.2	58.2
Wednesday 31/08/2022 15:45	73.4	86.3	78.1	58.4
Wednesday 31/08/2022 16:00	73.3	85.9	78.0	56.0
Wednesday 31/08/2022 16:15	73.1	86.2	77.7	53.9
Wednesday 31/08/2022 16:30	74.4	85.7	78.8	61.4
Wednesday 31/08/2022 16:45	74.1	84.8	78.5	59.4
Wednesday 31/08/2022 17:00	74.8	86.3	79.1	58.8
Wednesday 31/08/2022 17:15	74.5	85.0	79.1	60.7
Wednesday 31/08/2022 17:30	74.2	85.5	78.9	59.6
Wednesday 31/08/2022 17:45	72.5	86.6	76.8	58.3
Wednesday 31/08/2022 18:00	73.7	89.5	78.0	56.7
Wednesday 31/08/2022 18:15	72.8	87.6	77.4	56.3
Wednesday 31/08/2022 18:30	72.4	86.7	77.1	54.9
Wednesday 31/08/2022 18:45	72.1	89.0	75.9	52.8
Wednesday 31/08/2022 19:00	72.0	86.6	76.7	49.7
Thursday 01/09/2022 07:00	73.8	87.6	78.7	53.3
Thursday 01/09/2022 07:15	73.8	87.2	78.6	55.3
Thursday 01/09/2022 07:30	75.0	86.4	79.7	59.6
Thursday 01/09/2022 07:45	74.5	87.4	78.9	59.3
Thursday 01/09/2022 08:00	74.3	88.3	78.9	58.7
Thursday 01/09/2022 08:15	74.9	86.9	79.3	60.0
Thursday 01/09/2022 08:30	74.6	86.5	79.2	58.6
Thursday 01/09/2022 08:45	74.0	87.9	78.6	57.3





Thursday 01/09/2022 17:30	74.4	87.7	78.9	58.3
Thursday 01/09/2022 17:45	73.7	87.2	78.3	57.6
Thursday 01/09/2022 18:00	73.3	88.2	78.2	53.4
Thursday 01/09/2022 18:15	73.4	87.0	78.2	55.5
Thursday 01/09/2022 18:30	72.4	85.8	77.3	53.1
Thursday 01/09/2022 18:45	71.6	86.6	76.2	45.0
Friday 02/09/2022 07:00	72.7	88.6	77.0	53.5
Friday 02/09/2022 07:15	74.4	88.0	79.1	55.7
Friday 02/09/2022 07:30	74.4	86.3	79.3	56.6
Friday 02/09/2022 07:45	74.1	87.6	78.8	59.8
Friday 02/09/2022 08:00	74.2	87.9	78.8	58.2
Friday 02/09/2022 08:15	74.5	86.9	79.1	59.1
Friday 02/09/2022 08:30	74.2	88.6	79.0	57.5
Friday 02/09/2022 08:45	72.2	85.9	76.6	56.3
Friday 02/09/2022 09:00	73.1	87.3	77.7	52.9
Friday 02/09/2022 09:15	73.2	87.4	78.0	54.8
Friday 02/09/2022 09:30	73.0	86.0	77.6	57.6
Friday 02/09/2022 09:45	73.4	86.2	77.8	56.5
Friday 02/09/2022 10:00	73.0	87.0	77.7	54.2
Friday 02/09/2022 10:15	72.1	86.2	76.9	47.0
Friday 02/09/2022 10:30	72.6	85.2	77.3	53.4
Friday 02/09/2022 10:45	73.3	86.3	77.9	53.4
Friday 02/09/2022 11:00	73.1	86.8	77.9	51.8
Friday 02/09/2022 11:15	73.1	86.3	77.8	51.5
Friday 02/09/2022 11:30	73.1	84.2	77.8	54.2
Friday 02/09/2022 11:45	72.1	85.8	77.0	48.0
Friday 02/09/2022 12:00	72.9	86.1	77.5	52.4
Friday 02/09/2022 12:15	72.0	87.0	75.2	55.0
Location	2			
Time	LAeq	LAMax,f	LA10	Lago
Thursday 25/08/2022 16:45	62.7	87.5	65.3	52.30
Thursday 25/08/2022 17:00	63.3	79.1	66.6	53.70



Thursday 25/08/2022 17:15	63.8	72.4	66.7	54.80
Thursday 25/08/2022 17:30	62.9	74.4	66.2	53.80
Thursday 25/08/2022 17:45	63.7	78.1	66.8	55.40
Thursday 25/08/2022 18:00	63.0	79.9	66.2	53.10
Thursday 25/08/2022 18:15	62.5	72.4	66.1	52.40
Thursday 25/08/2022 18:30	62.3	73.1	66.0	52.20
Thursday 25/08/2022 18:45	61.6	77.1	65.3	50.70
Thursday 25/08/2022 19:00	60.9	74.6	65.0	47.30
Friday 26/08/2022 07:00	60.3	74.9	64.6	46.80
Friday 26/08/2022 07:15	60.0	73.7	64.5	45.10
Friday 26/08/2022 07:30	61.1	74.2	65.4	44.40
Friday 26/08/2022 07:45	60.6	72.7	64.9	45.00
Friday 26/08/2022 08:00	60.4	72.9	64.8	43.80
Friday 26/08/2022 08:15	60.9	73.0	65.1	44.40
Friday 26/08/2022 08:30	60.2	72.1	64.4	43.00
Friday 26/08/2022 08:45	59.6	72.8	64.1	42.30
Friday 26/08/2022 09:00	59.8	73.7	64.1	41.90
Friday 26/08/2022 09:15	59.3	71.8	63.6	42.30
Friday 26/08/2022 09:30	60.0	79.5	63.9	42.30
Friday 26/08/2022 09:45	59.5	75.1	63.8	42.90
Friday 26/08/2022 10:00	59.6	70.7	63.8	43.20
Friday 26/08/2022 10:15	59.3	70.8	63.7	41.40
Friday 26/08/2022 10:30	59.9	73.7	63.8	44.50
Friday 26/08/2022 10:45	59.0	70.2	63.2	43.80
Friday 26/08/2022 11:00	59.9	72.2	63.8	45.80
Friday 26/08/2022 11:15	60.0	72.3	63.9	41.10
Friday 26/08/2022 11:30	60.9	74.8	64.7	45.20
Friday 26/08/2022 11:45	59.6	71.8	63.7	44.20
Friday 26/08/2022 12:00	60.3	73.7	64.3	44.60
Friday 26/08/2022 12:15	60.4	72.3	64.4	46.40
Friday 26/08/2022 12:30	60.0	72.5	64.1	46.50
Friday 26/08/2022 12:45	59.5	71.9	63.8	44.40
Friday 26/08/2022 13:00	59.6	71.6	63.8	44.50



Friday 26/08/2022 13:15	60.8	82.9	64.2	47.50
Friday 26/08/2022 13:30	59.8	73.2	63.7	47.00
Friday 26/08/2022 13:45	59.7	71.8	63.7	44.50
Friday 26/08/2022 14:00	60.6	71.3	64.2	49.90
Friday 26/08/2022 14:15	59.7	71.6	63.8	44.00
Friday 26/08/2022 14:30	59.4	71.1	63.4	44.80
Friday 26/08/2022 14:45	59.5	72.0	63.7	44.70
Friday 26/08/2022 15:00	60.1	71.8	64.1	44.60
Friday 26/08/2022 15:15	60.3	72.5	64.4	45.70
Friday 26/08/2022 15:30	60.0	72.3	64.1	43.90
Friday 26/08/2022 15:45	59.9	72.8	63.9	44.50
Friday 26/08/2022 16:00	60.7	79.7	64.3	48.20
Friday 26/08/2022 16:15	60.0	71.6	63.9	45.20
Friday 26/08/2022 16:30	60.4	73.7	64.2	45.30
Friday 26/08/2022 16:45	59.8	71.7	64.1	41.10
Friday 26/08/2022 17:00	59.4	70.6	63.7	44.20
Friday 26/08/2022 17:15	60.0	72.9	63.8	46.20
Friday 26/08/2022 17:30	59.5	74.9	63.8	42.90
Friday 26/08/2022 17:45	59.3	72.4	63.8	43.40
Friday 26/08/2022 18:00	59.3	73.7	63.7	41.50
Friday 26/08/2022 18:15	59.2	72.9	63.8	42.10
Friday 26/08/2022 18:30	59.9	72.2	64.3	45.00
Friday 26/08/2022 18:45	59.0	71.4	63.6	38.30
Friday 26/08/2022 19:00	59.2	72.6	63.5	45.50
Saturday 27/08/2022 08:00	57.6	70.3	62.5	39.90
Saturday 27/08/2022 08:15	58.3	71.6	63.2	37.30
Saturday 27/08/2022 08:30	59.8	72.4	64.0	45.80
Saturday 27/08/2022 08:45	59.8	72.3	64.0	47.90
Saturday 27/08/2022 09:00	60.4	74.9	64.3	46.50
Saturday 27/08/2022 09:15	61.0	71.1	64.6	50.70
Saturday 27/08/2022 09:30	60.3	71.3	64.2	50.30
Saturday 27/08/2022 09:45	59.9	75.5	63.9	48.70
Saturday 27/08/2022 10:00	59.8	70.2	63.7	49.60

Saturday 27/08/2022 10:15	60.3	70.7	64.1	50.50
Saturday 27/08/2022 10:30	61.5	69.7	65.0	52.40
Saturday 27/08/2022 10:45	60.6	72.3	64.4	48.10
Saturday 27/08/2022 11:00	59.5	69.6	63.6	48.00
Saturday 27/08/2022 11:15	59.8	71.9	64.0	44.20
Saturday 27/08/2022 11:30	59.0	71.2	63.4	40.60
Saturday 27/08/2022 11:45	60.2	74.7	64.0	46.40
Saturday 27/08/2022 12:00	58.7	72.6	63.0	43.50
Saturday 27/08/2022 12:15	59.4	70.5	63.6	44.80
Saturday 27/08/2022 12:30	59.9	72.2	63.9	47.20
Saturday 27/08/2022 12:45	60.9	70.8	64.6	50.40
Saturday 27/08/2022 13:00	60.8	70.9	64.7	49.10
Monday 29/08/2022 07:00	57.4	73.3	61.5	40.90
Monday 29/08/2022 07:15	57.0	70.9	61.4	42.80
Monday 29/08/2022 07:30	58.7	73.0	62.6	46.10
Monday 29/08/2022 07:45	58.2	70.8	62.3	45.50
Monday 29/08/2022 08:00	58.7	72.8	62.7	49.40
Monday 29/08/2022 08:15	57.2	71.6	61.3	45.60
Monday 29/08/2022 08:30	58.9	72.5	63.1	46.10
Monday 29/08/2022 08:45	59.0	79.1	62.5	46.40
Monday 29/08/2022 09:00	57.6	71.6	62.0	42.40
Monday 29/08/2022 09:15	59.1	79.2	63.2	46.40
Monday 29/08/2022 09:30	59.2	71.3	63.5	46.80
Monday 29/08/2022 09:45	57.9	70.1	62.4	45.20
Monday 29/08/2022 10:00	57.8	70.7	62.4	43.90
Monday 29/08/2022 10:15	58.8	70.9	63.0	47.50
Monday 29/08/2022 10:30	59.4	70.8	63.8	47.90
Monday 29/08/2022 10:45	59.1	77.2	63.1	46.60
Monday 29/08/2022 11:00	58.5	70.4	62.9	44.50
Monday 29/08/2022 11:15	59.4	75.7	63.2	47.50
Monday 29/08/2022 11:30	59.5	70.8	63.5	48.10
Monday 29/08/2022 11:45	59.6	76.8	63.4	48.00
Monday 29/08/2022 12:00	59.2	76.1	63.1	46.00



Monday 29/08/2022 12:15	59.6	76.0	63.5	49.00
Monday 29/08/2022 12:30	60.6	71.4	63.9	52.00
Monday 29/08/2022 12:45	60.6	71.2	64.3	52.10
Monday 29/08/2022 13:00	60.6	79.0	63.8	50.30
Monday 29/08/2022 13:15	60.2	70.4	63.7	51.30
Monday 29/08/2022 13:30	60.0	72.4	63.7	50.70
Monday 29/08/2022 13:45	60.3	71.0	63.7	52.60
Monday 29/08/2022 14:00	61.4	73.3	64.6	54.10
Monday 29/08/2022 14:15	61.2	78.0	64.3	53.70
Monday 29/08/2022 14:30	61.0	77.9	64.4	52.70
Monday 29/08/2022 14:45	61.0	71.8	64.6	50.80
Monday 29/08/2022 15:00	60.3	70.4	63.7	52.40
Monday 29/08/2022 15:15	60.8	71.4	64.5	50.60
Monday 29/08/2022 15:30	61.2	74.1	64.6	50.60
Monday 29/08/2022 15:45	65.2	91.9	65.7	52.70
Monday 29/08/2022 16:00	61.9	77.7	65.1	54.30
Monday 29/08/2022 16:15	60.1	71.2	63.9	49.90
Monday 29/08/2022 16:30	60.9	76.0	64.6	52.20
Monday 29/08/2022 16:45	60.8	76.7	64.4	50.20
Monday 29/08/2022 17:00	61.1	71.0	64.6	52.90
Monday 29/08/2022 17:15	62.0	78.2	65.5	51.20
Monday 29/08/2022 17:30	61.3	71.0	65.0	51.20
Monday 29/08/2022 17:45	62.1	83.0	65.3	49.50
Monday 29/08/2022 18:00	62.0	80.7	65.5	52.30
Monday 29/08/2022 18:15	61.3	77.8	64.6	44.50
Monday 29/08/2022 18:30	60.7	80.1	64.0	48.40
Monday 29/08/2022 18:45	60.7	75.9	64.5	47.80
Monday 29/08/2022 19:00	60.5	76.0	63.9	49.10
Tuesday 30/08/2022 07:00	61.5	72.0	65.4	50.70
Tuesday 30/08/2022 07:15	63.4	72.6	66.6	55.10
Tuesday 30/08/2022 07:30	63.3	72.2	66.6	54.20
Tuesday 30/08/2022 07:45	63.0	72.7	66.3	54.40
Tuesday 30/08/2022 08:00	63.2	71.6	66.3	54.70

Tuesday 30/08/2022 08:1564.080.967.155.80Tuesday 30/08/2022 08:3063.672.766.953.40Tuesday 30/08/2022 08:4562.871.366.055.00Tuesday 30/08/2022 09:0061.671.365.053.20Tuesday 30/08/2022 09:1561.671.365.553.20Tuesday 30/08/2022 09:3061.972.265.553.20Tuesday 30/08/2022 09:4561.372.064.751.90Tuesday 30/08/2022 10:0061.672.764.853.70Tuesday 30/08/2022 10:0161.672.764.853.70Tuesday 30/08/2022 10:0261.671.364.452.50Tuesday 30/08/2022 10:0361.671.364.452.50Tuesday 30/08/2022 11:0561.871.965.053.80Tuesday 30/08/2022 11:3061.671.465.753.90Tuesday 30/08/2022 11:3061.677.464.751.90Tuesday 30/08/2022 11:4560.575.463.950.90Tuesday 30/08/2022 11:563.675.463.950.90Tuesday 30/08/2022 12:3061.677.063.449.40Tuesday 30/08/2022 12:4560.671.764.751.90Tuesday 30/08/2022 13:5061.671.764.751.90Tuesday 30/08/2022 13:5061.671.764.751.90Tuesday 30/08/2022 13:5061.671.764.751.90Tuesday 30/08/2022 13:5061.					
Tuesday 30/08/202 08:3063.672.766.953.40Tuesday 30/08/202 09:0062.271.665.552.30Tuesday 30/08/202 09:1561.671.365.553.20Tuesday 30/08/202 09:3061.972.265.553.20Tuesday 30/08/202 09:3061.972.265.553.20Tuesday 30/08/202 09:4561.072.064.751.90Tuesday 30/08/202 10:5061.672.764.853.70Tuesday 30/08/202 10:3061.471.364.753.20Tuesday 30/08/202 10:3061.471.364.753.20Tuesday 30/08/202 11:5061.671.364.753.20Tuesday 30/08/202 11:5061.871.965.053.80Tuesday 30/08/202 11:5061.871.965.053.80Tuesday 30/08/202 11:5061.871.965.053.80Tuesday 30/08/202 11:5061.675.463.950.90Tuesday 30/08/202 11:5065.075.463.950.90Tuesday 30/08/202 12:5065.075.463.950.90Tuesday 30/08/202 13:5065.071.764.752.90Tuesday 30/08/202 13:5066.071.764.754.10Tuesday 30/08/202 13:5066.071.764.754.10Tuesday 30/08/202 13:5066.071.764.754.10Tuesday 30/08/202 13:5066.071.764.754.10Tuesday 30/08/202 13:5066.071.7 <t< td=""><td>Tuesday 30/08/2022 08:15</td><td>64.0</td><td>80.9</td><td>67.1</td><td>55.80</td></t<>	Tuesday 30/08/2022 08:15	64.0	80.9	67.1	55.80
Tuesday 30/08/2022 09:4566.2872.366.0055.00Tuesday 30/08/2022 09:0561.6171.3065.5053.20Tuesday 30/08/2022 09:3561.972.2065.5053.20Tuesday 30/08/2022 09:4562.3172.8065.3055.20Tuesday 30/08/2022 09:4561.1072.0064.7051.90Tuesday 30/08/2022 01:0561.1072.0064.7053.20Tuesday 30/08/2022 01:0561.1071.3064.7053.20Tuesday 30/08/2022 01:0561.1071.3064.7053.20Tuesday 30/08/2022 11:0561.1071.3064.7053.20Tuesday 30/08/2022 11:1561.1071.3064.7053.20Tuesday 30/08/2022 11:3061.1071.3064.7053.20Tuesday 30/08/2022 11:3061.0071.3064.7053.20Tuesday 30/08/2022 12:3061.6071.4063.5053.20Tuesday 30/08/2022 13:3061.6071.7064.7064.70Tuesday 30/08/2022 13:3061.6071.7064.7061.70Tuesday 30/08/2022 13:3061.6071.7064.7061.70Tuesday 30/08/2022 13:4561.0071.4074.7074.70Tuesday 30/08/2022 13:4561.0071.7064.7064.70Tuesday 30/08/2022 13:4561.0071.7064.7064.70Tuesday 30/08/2022 13:4561.0071.7064.7064.70Tuesday 30/08/2022 13:4561.0071.7064.70<	Tuesday 30/08/2022 08:30	63.6	72.7	66.9	53.40
Tuesday 30/08/2022 09:00612.71.665.552.30Tuesday 30/08/2022 09:3061.971.2065.5053.20Tuesday 30/08/2022 09:3061.972.2065.5053.20Tuesday 30/08/2022 09:3061.0172.0064.7051.30Tuesday 30/08/2022 01:3061.0172.0064.7053.20Tuesday 30/08/2021 01:3061.0171.3064.7053.20Tuesday 30/08/2021 01:3061.0171.3064.7053.20Tuesday 30/08/2021 01:3061.0171.3064.7053.20Tuesday 30/08/2021 11:3061.0171.3064.7053.20Tuesday 30/08/2021 11:3061.0171.3064.7063.20Tuesday 30/08/2021 11:3061.0171.3064.7063.20Tuesday 30/08/2021 11:3061.0171.3064.7063.20Tuesday 30/08/2021 11:3061.0171.0063.2063.20Tuesday 30/08/2021 11:3061.0171.0063.2063.20Tuesday 30/08/2021 11:3061.0171.0063.2063.20Tuesday 30/08/2021 11:3061.0171.0063.2071.00Tuesday 30/08/2021 11:3061.0071.0071.0071.00Tuesday 30/08/2021 11:3061.0071.0071.0071.00Tuesday 30/08/2021 11:3061.0071.0071.0071.00Tuesday 30/08/2021 11:3061.0071.0071.0071.00Tuesday 30/08/2021 11:3061.0071.0071.00	Tuesday 30/08/2022 08:45	62.8	72.3	66.0	55.00
Tuesday 30/08/2022 09:3561.6171.3165.5053.20Tuesday 30/08/2022 09:4562.3372.8365.5355.20Tuesday 30/08/2022 10:1561.6172.7064.8453.70Tuesday 30/08/2022 10:3561.6173.7164.7453.20Tuesday 30/08/2022 10:4566.9971.3364.4452.50Tuesday 30/08/2022 11:3061.2071.3364.4052.70Tuesday 30/08/2022 11:3061.6171.3364.4052.70Tuesday 30/08/2022 11:3061.6171.3364.4052.70Tuesday 30/08/2022 11:3061.6171.3364.4052.70Tuesday 30/08/2022 11:3061.6171.3463.9050.90Tuesday 30/08/2022 11:3061.6171.4063.9050.90Tuesday 30/08/2022 12:3063.6071.7064.5250.90Tuesday 30/08/2022 13:3061.6071.7064.5250.90Tuesday 30/08/2022 13:3061.6171.7064.7051.90Tuesday 30/08/2022 13:3061.6171.7064.7051.90Tuesday 30/08/2022 13:3061.6171.7064.7154.10Tuesday 30/08/2022 13:3061.6171.7064.7154.10Tuesday 30/08/2022 14:3060.0072.0063.8071.90Tuesday 30/08/2022 14:3061.6171.7064.7164.70Tuesday 30/08/2022 14:3061.6171.7064.7164.71Tuesday 30/08/2022 14:3061.6171.7064.71 <td>Tuesday 30/08/2022 09:00</td> <td>62.2</td> <td>71.6</td> <td>65.5</td> <td>52.30</td>	Tuesday 30/08/2022 09:00	62.2	71.6	65.5	52.30
Tuesday 30/08/2022 09:3061.972.265.553.20Tuesday 30/08/2022 10:0061.372.865.355.20Tuesday 30/08/2022 10:1561.672.764.83.3.70Tuesday 30/08/2022 10:3061.473.164.75.3.20Tuesday 30/08/2022 10:4560.971.364.45.2.50Tuesday 30/08/2022 11:1561.871.965.05.3.80Tuesday 30/08/2022 11:3061.173.364.45.2.70Tuesday 30/08/2022 11:3061.671.364.75.3.80Tuesday 30/08/2022 11:3061.671.364.95.0.90Tuesday 30/08/2022 11:3061.671.463.95.0.90Tuesday 30/08/2022 11:3060.571.563.85.0.90Tuesday 30/08/2022 11:3061.671.764.25.0.90Tuesday 30/08/2022 12:3061.671.764.25.0.90Tuesday 30/08/2022 13:3061.671.764.95.2.90Tuesday 30/08/2022 13:3061.671.764.95.0.90Tuesday 30/08/2022 13:4560.071.764.15.1.90Tuesday 30/08/2022 13:4560.071.764.15.1.90Tuesday 30/08/2022 13:4560.071.764.95.1.90Tuesday 30/08/2022 13:4560.071.764.15.1.90Tuesday 30/08/2022 13:4560.071.764.15.1.90Tuesday 30/08/2022 13:4560.071.764.15.1.90Tuesday 30/08/20	Tuesday 30/08/2022 09:15	61.6	71.3	65.0	53.70
Tuesday 30/08/2022 09:4562.372.865.355.20Tuesday 30/08/2022 10:1561.677.764.853.70Tuesday 30/08/2022 10:3061.473.164.753.20Tuesday 30/08/2022 10:3061.971.364.452.50Tuesday 30/08/2022 11:3061.871.965.053.80Tuesday 30/08/2022 11:3061.073.364.452.70Tuesday 30/08/2022 11:3061.073.464.750.90Tuesday 30/08/2022 11:3060.575.463.950.90Tuesday 30/08/2022 12:3059.972.263.852.70Tuesday 30/08/2022 12:3060.671.764.250.90Tuesday 30/08/2022 13:3060.671.764.552.90Tuesday 30/08/2022 13:3061.670.864.952.90Tuesday 30/08/2022 13:3061.671.764.754.90Tuesday 30/08/2022 13:3061.671.764.754.90Tuesday 30/08/2022 13:4560.072.863.852.90Tuesday 30/08/2022 13:4560.071.764.754.10Tuesday 30/08/2022 13:4560.071.764.754.90Tuesday 30/08/2022 13:4560.071.863.849.80Tuesday 30/08/2022 14:4560.071.863.849.80Tuesday 30/08/2022 15:5061.671.764.754.90Tuesday 30/08/2022 15:5161.072.963.449.80Tuesday 30/08/2022 15:5161	Tuesday 30/08/2022 09:30	61.9	72.2	65.5	53.20
Tuesday 30/08/2022 10:0061.372.064.751.90Tuesday 30/08/2022 10:3061.6172.764.853.70Tuesday 30/08/2022 10:4560.971.364.452.50Tuesday 30/08/2022 11:0061.274.264.751.80Tuesday 30/08/2022 11:1561.371.965.053.80Tuesday 30/08/2022 11:4560.575.463.950.90Tuesday 30/08/2022 12:1565.075.463.950.90Tuesday 30/08/2022 12:1559.972.263.494.90Tuesday 30/08/2022 12:1560.671.764.250.90Tuesday 30/08/2022 12:3061.671.764.250.90Tuesday 30/08/2022 13:5061.670.864.952.90Tuesday 30/08/2022 13:5061.670.864.952.90Tuesday 30/08/2022 13:5061.671.764.552.40Tuesday 30/08/2022 13:5061.671.764.754.10Tuesday 30/08/2022 13:5061.671.764.754.10Tuesday 30/08/2022 14:5061.671.764.754.10Tuesday 30/08/2022 14:5061.072.063.849.90Tuesday 30/08/2022 15:5061.772.863.949.90Tuesday 30/08/2022 15:5061.173.464.451.30Tuesday 30/08/2022 15:5061.173.464.451.30Tuesday 30/08/2022 15:5061.173.464.451.30Tuesday 30/08/2022 15:506	Tuesday 30/08/2022 09:45	62.3	72.8	65.3	55.20
Tuesday 30/08/2022 10:1561.672.764.853.70Tuesday 30/08/2022 10:3066.1473.164.753.20Tuesday 30/08/2022 11:0066.071.364.452.50Tuesday 30/08/2022 11:1561.871.965.053.80Tuesday 30/08/2022 11:3061.073.364.452.70Tuesday 30/08/2022 11:4560.575.463.950.90Tuesday 30/08/2022 12:0059.670.663.550.50Tuesday 30/08/2022 12:1560.672.563.852.70Tuesday 30/08/2022 12:3060.671.764.250.90Tuesday 30/08/2022 13:1560.671.764.252.40Tuesday 30/08/2022 13:3061.670.864.952.90Tuesday 30/08/2022 13:3061.671.764.754.10Tuesday 30/08/2022 13:3061.671.764.754.10Tuesday 30/08/2022 13:4560.072.663.849.90Tuesday 30/08/2022 14:4560.171.764.754.10Tuesday 30/08/2022 14:4560.173.063.749.40Tuesday 30/08/2022 14:4560.173.063.749.40Tuesday 30/08/2022 15:5061.173.464.473.1044.40Tuesday 30/08/2022 15:5061.173.464.453.10Tuesday 30/08/2022 15:5061.173.464.453.10Tuesday 30/08/2022 15:5061.173.464.453.10Tuesday 30/08/2022 1	Tuesday 30/08/2022 10:00	61.3	72.0	64.7	51.90
Tuesday 30/08/2022 10:3061.473.164.753.20Tuesday 30/08/2022 11:0061.274.264.751.80Tuesday 30/08/2022 11:1561.871.965.053.80Tuesday 30/08/2022 11:3061.073.364.452.70Tuesday 30/08/2022 11:4560.575.463.950.90Tuesday 30/08/2022 12:0059.670.663.550.90Tuesday 30/08/2022 12:1559.972.263.449.40Tuesday 30/08/2022 12:3060.671.764.250.90Tuesday 30/08/2022 12:3060.671.764.250.90Tuesday 30/08/2022 13:3060.671.764.250.90Tuesday 30/08/2022 13:3061.270.864.952.90Tuesday 30/08/2022 13:3061.671.764.754.10Tuesday 30/08/2022 13:3061.671.764.754.10Tuesday 30/08/2022 13:4560.071.764.754.10Tuesday 30/08/2022 14:5060.071.764.754.10Tuesday 30/08/2022 14:5060.071.764.349.90Tuesday 30/08/2022 15:5059.270.163.349.90Tuesday 30/08/2022 15:3061.073.063.749.40Tuesday 30/08/2022 15:3061.073.064.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 15:5061.173.464.453.10Tuesday 30/08/2022 15:5061	Tuesday 30/08/2022 10:15	61.6	72.7	64.8	53.70
Tuesday 30/08/2022 10:4560.971.364.452.50Tuesday 30/08/2022 11:1561.274.264.751.80Tuesday 30/08/2022 11:3061.073.364.452.70Tuesday 30/08/2022 11:4560.575.463.950.90Tuesday 30/08/2022 12:0059.670.663.550.50Tuesday 30/08/2022 12:1559.972.263.449.40Tuesday 30/08/2022 12:3060.671.764.250.90Tuesday 30/08/2022 12:4560.671.764.250.90Tuesday 30/08/2022 13:0061.277.264.552.90Tuesday 30/08/2022 13:0061.277.264.552.90Tuesday 30/08/2022 13:3061.670.864.952.90Tuesday 30/08/2022 13:4560.071.764.754.10Tuesday 30/08/2022 14:3061.671.764.754.10Tuesday 30/08/2022 14:3060.071.764.350.90Tuesday 30/08/2022 14:3060.071.764.754.10Tuesday 30/08/2022 14:3060.071.764.394.90Tuesday 30/08/2022 15:3060.073.063.349.90Tuesday 30/08/2022 15:3059.270.163.249.40Tuesday 30/08/2022 15:3061.073.064.453.10Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 15:5061.173.464.453.10Tuesday 30/08/2022 15:5061	Tuesday 30/08/2022 10:30	61.4	73.1	64.7	53.20
Tuesday 30/08/2022 11:0061.274.264.751.80Tuesday 30/08/2022 11:1561.871.965.053.80Tuesday 30/08/2022 11:3061.073.364.452.70Tuesday 30/08/2022 12:0059.670.663.550.50Tuesday 30/08/2022 12:1559.972.263.449.40Tuesday 30/08/2022 12:3060.672.563.852.70Tuesday 30/08/2022 12:4560.671.764.259.90Tuesday 30/08/2022 13:4560.370.9064.149.20Tuesday 30/08/2022 13:1560.370.9064.149.20Tuesday 30/08/2022 13:1560.370.9064.149.20Tuesday 30/08/2022 13:4560.072.663.852.90Tuesday 30/08/2022 14:4560.072.663.850.90Tuesday 30/08/2022 14:4560.072.663.859.90Tuesday 30/08/2022 14:4560.072.663.849.80Tuesday 30/08/2022 14:4560.171.764.754.10Tuesday 30/08/2022 14:4560.172.863.849.80Tuesday 30/08/2022 15:5559.270.163.248.40Tuesday 30/08/2022 15:5561.173.464.453.10Tuesday 30/08/2022 15:5561.173.464.453.10Tuesday 30/08/2022 15:5561.173.464.453.10Tuesday 30/08/2022 15:5561.173.464.453.10Tuesday 30/08/2022 15:55 <td< td=""><td>Tuesday 30/08/2022 10:45</td><td>60.9</td><td>71.3</td><td>64.4</td><td>52.50</td></td<>	Tuesday 30/08/2022 10:45	60.9	71.3	64.4	52.50
Tuesday 30/08/2022 11:1566.871.965.053.80Tuesday 30/08/2022 11:30661.073.3664.452.70Tuesday 30/08/2022 12:0060.575.463.950.90Tuesday 30/08/2022 12:1559.972.263.449.40Tuesday 30/08/2022 12:3060.671.764.250.90Tuesday 30/08/2022 12:4560.671.764.250.90Tuesday 30/08/2022 13:0061.277.264.552.40Tuesday 30/08/2022 13:1560.370.964.149.20Tuesday 30/08/2022 13:3061.670.864.952.90Tuesday 30/08/2022 13:4560.072.663.850.90Tuesday 30/08/2022 14:0061.671.764.754.10Tuesday 30/08/2022 14:1560.072.663.849.50Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 15:5061.073.063.749.40Tuesday 30/08/2022 15:5159.270.163.248.40Tuesday 30/08/2022 15:5561.173.464.453.10Tuesday 30/08/2022 15:5561.173.464.453.10Tuesday 30/08/2022 15:5561.173.464.453.10Tuesday 30/08/2022 15:5561.173.464.754.50Tuesday 30/08/2022 15:5561.173.464.453.10Tuesday 30/08/2022 15:55	Tuesday 30/08/2022 11:00	61.2	74.2	64.7	51.80
Tuesday 30/08/2022 11:30         61.0         73.3         64.4         52.70           Tuesday 30/08/2022 11:45         60.5         75.4         63.9         50.90           Tuesday 30/08/2022 12:00         59.6         70.6         63.5         50.50           Tuesday 30/08/2022 12:15         59.9         72.2         63.4         49.40           Tuesday 30/08/2022 12:30         60.6         72.5         63.8         52.70           Tuesday 30/08/2022 13:00         61.2         77.7         64.2         50.90           Tuesday 30/08/2022 13:30         61.6         70.9         64.1         49.20           Tuesday 30/08/2022 13:30         61.6         70.8         64.9         52.90           Tuesday 30/08/2022 13:30         61.6         70.8         64.9         52.90           Tuesday 30/08/2022 13:45         60.0         72.6         63.5         50.90           Tuesday 30/08/2022 14:45         60.0         72.0         63.8         49.50           Tuesday 30/08/2022 14:45         60.0         73.0         63.7         49.40           Tuesday 30/08/2022 14:45         60.0         73.0         63.7         49.40           Tuesday 30/08/2022 15:50         59.2         70.1	Tuesday 30/08/2022 11:15	61.8	71.9	65.0	53.80
Tuesday 30/08/2022 11:45         660.5         75.4         63.9         50.90           Tuesday 30/08/2022 12:00         59.6         70.6         63.5         50.50           Tuesday 30/08/2022 12:15         59.9         72.2         63.4         49.40           Tuesday 30/08/2022 12:30         60.6         72.5         63.8         52.70           Tuesday 30/08/2022 12:45         60.6         71.7         64.2         50.90           Tuesday 30/08/2022 13:00         61.2         77.2         64.5         52.40           Tuesday 30/08/2022 13:15         60.3         70.9         64.1         49.20           Tuesday 30/08/2022 13:30         61.6         70.8         64.9         52.90           Tuesday 30/08/2022 13:45         60.0         72.6         63.5         50.90           Tuesday 30/08/2022 14:45         60.0         72.6         63.8         49.50           Tuesday 30/08/2022 14:45         60.0         72.0         63.8         49.80           Tuesday 30/08/2022 14:45         60.0         73.0         63.7         49.40           Tuesday 30/08/2022 15:50         61.0         73.0         63.7         49.40           Tuesday 30/08/2022 15:45         59.2         70.1 <td>Tuesday 30/08/2022 11:30</td> <td>61.0</td> <td>73.3</td> <td>64.4</td> <td>52.70</td>	Tuesday 30/08/2022 11:30	61.0	73.3	64.4	52.70
Tuesday 30/08/2022 12:00         59.6         70.6         63.5         50.50           Tuesday 30/08/2022 12:15         60.6         72.2         63.4         49.40           Tuesday 30/08/2022 12:30         60.6         72.5         63.8         52.70           Tuesday 30/08/2022 12:45         60.6         71.7         64.2         50.90           Tuesday 30/08/2022 13:00         61.2         77.2         64.5         52.40           Tuesday 30/08/2022 13:15         60.3         70.9         64.1         49.20           Tuesday 30/08/2022 13:30         61.6         70.8         64.9         52.90           Tuesday 30/08/2022 13:45         60.0         72.6         63.5         50.90           Tuesday 30/08/2022 14:00         61.6         71.7         64.7         54.10           Tuesday 30/08/2022 14:15         60.0         72.0         63.8         49.80           Tuesday 30/08/2022 14:45         60.0         73.0         63.7         49.40           Tuesday 30/08/2022 15:50         61.0         73.0         63.7         49.40           Tuesday 30/08/2022 15:45         59.2         70.1         63.2         49.40           Tuesday 30/08/2022 15:45         61.0         73.4	Tuesday 30/08/2022 11:45	60.5	75.4	63.9	50.90
Tuesday 30/08/2022 12:15       59.9       72.2       63.4       49.40         Tuesday 30/08/2022 12:30       60.6       72.5       63.8       52.70         Tuesday 30/08/2022 12:45       60.6       71.7       64.2       50.90         Tuesday 30/08/2022 13:00       61.2       77.2       64.5       52.40         Tuesday 30/08/2022 13:15       60.3       70.9       64.1       49.20         Tuesday 30/08/2022 13:30       61.6       70.8       64.9       52.90         Tuesday 30/08/2022 13:45       60.0       72.6       63.5       50.90         Tuesday 30/08/2022 14:00       61.6       71.7       64.7       54.10         Tuesday 30/08/2022 14:15       60.0       72.6       63.8       49.50         Tuesday 30/08/2022 14:30       60.0       72.0       63.8       49.60         Tuesday 30/08/2022 14:45       60.0       73.0       63.7       49.40         Tuesday 30/08/2022 15:00       60.2       73.2       63.9       49.90         Tuesday 30/08/2022 15:30       61.0       72.9       64.4       51.30         Tuesday 30/08/2022 15:45       61.1       73.4       64.4       53.10         Tuesday 30/08/2022 15:50       61.1	Tuesday 30/08/2022 12:00	59.6	70.6	63.5	50.50
Tuesday 30/08/2022 12:30       60.6       772.5       63.8       52.70         Tuesday 30/08/2022 12:45       60.6       71.7       64.2       50.90         Tuesday 30/08/2022 13:00       61.2       77.2       64.5       52.40         Tuesday 30/08/2022 13:15       60.3       70.9       64.1       49.20         Tuesday 30/08/2022 13:30       61.6       70.8       64.9       52.90         Tuesday 30/08/2022 13:45       60.0       72.6       63.5       50.90         Tuesday 30/08/2022 14:00       61.6       71.7       64.7       54.10         Tuesday 30/08/2022 14:15       60.0       72.0       63.8       49.50         Tuesday 30/08/2022 14:30       60.1       72.8       63.8       49.80         Tuesday 30/08/2022 14:45       60.0       72.0       63.8       49.80         Tuesday 30/08/2022 15:50       60.2       73.2       63.9       49.40         Tuesday 30/08/2022 15:15       559.2       70.1       63.2       48.40         Tuesday 30/08/2022 15:30       61.1       73.4       64.4       53.10         Tuesday 30/08/2022 15:45       61.1       73.4       64.4       53.10         Tuesday 30/08/2022 16:50       66.2	Tuesday 30/08/2022 12:15	59.9	72.2	63.4	49.40
Tuesday 30/08/2022 12:45         660.6         71.7         64.2         50.90           Tuesday 30/08/2022 13:00         61.2         77.2         64.5         52.40           Tuesday 30/08/2022 13:15         60.3         70.9         64.1         49.20           Tuesday 30/08/2022 13:30         61.6         70.8         64.9         52.90           Tuesday 30/08/2022 13:30         60.0         72.6         63.5         50.90           Tuesday 30/08/2022 13:45         60.0         72.6         63.5         50.90           Tuesday 30/08/2022 14:00         61.6         71.7         64.7         54.10           Tuesday 30/08/2022 14:30         60.0         72.0         63.8         49.50           Tuesday 30/08/2022 14:30         60.1         72.8         63.8         49.80           Tuesday 30/08/2022 14:45         60.0         73.0         63.7         49.40           Tuesday 30/08/2022 15:50         60.2         73.2         63.9         49.90           Tuesday 30/08/2022 15:15         59.2         70.1         63.2         48.40           Tuesday 30/08/2022 15:45         61.1         73.4         64.4         53.10           Tuesday 30/08/2022 16:50         61.1         73.4 <td>Tuesday 30/08/2022 12:30</td> <td>60.6</td> <td>72.5</td> <td>63.8</td> <td>52.70</td>	Tuesday 30/08/2022 12:30	60.6	72.5	63.8	52.70
Tuesday 30/08/2022 13:00661.277.2664.552.40Tuesday 30/08/2022 13:1560.370.964.149.20Tuesday 30/08/2022 13:3061.670.864.952.90Tuesday 30/08/2022 13:4560.072.663.550.90Tuesday 30/08/2022 14:0061.671.764.754.10Tuesday 30/08/2022 14:1560.072.063.849.50Tuesday 30/08/2022 14:3060.172.863.849.80Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 15:00660.273.263.949.90Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 15:0060.472.064.049.70Tuesday 30/08/2022 15:3061.173.464.453.10Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 12:45	60.6	71.7	64.2	50.90
Tuesday 30/08/2022 13:15660.370.9664.149.20Tuesday 30/08/2022 13:3061.670.864.952.90Tuesday 30/08/2022 13:4560.072.663.550.90Tuesday 30/08/2022 14:0061.671.764.754.10Tuesday 30/08/2022 14:1560.072.063.849.50Tuesday 30/08/2022 14:3060.172.863.849.80Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 15:0060.273.263.949.90Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:3061.173.464.453.10Tuesday 30/08/2022 15:3061.173.464.453.10Tuesday 30/08/2022 15:3060.472.064.754.50Tuesday 30/08/2022 15:3061.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.754.50Tuesday 30/08/2022 16:0060.472.054.5053.30Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 13:00	61.2	77.2	64.5	52.40
Tuesday 30/08/2022 13:30661.670.8664.952.90Tuesday 30/08/2022 13:4560.072.663.550.90Tuesday 30/08/2022 14:0061.671.764.754.10Tuesday 30/08/2022 14:1560.072.063.849.50Tuesday 30/08/2022 14:3060.172.863.849.80Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 15:0060.273.263.949.90Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 15:5060.472.064.049.70Tuesday 30/08/2022 15:3061.173.464.453.10Tuesday 30/08/2022 15:4560.472.064.049.70Tuesday 30/08/2022 16:0060.472.065.754.50Tuesday 30/08/2022 16:1562.377.965.553.30	Tuesday 30/08/2022 13:15	60.3	70.9	64.1	49.20
Tuesday 30/08/2022 13:45660.072.6663.550.90Tuesday 30/08/2022 14:0061.671.764.754.10Tuesday 30/08/2022 14:1560.072.063.849.50Tuesday 30/08/2022 14:3060.172.863.849.80Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 15:00660.273.263.949.90Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:4560.472.064.453.10Tuesday 30/08/2022 15:0060.472.064.453.10Tuesday 30/08/2022 15:3060.472.064.453.10Tuesday 30/08/2022 15:4560.472.064.049.70Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:3062.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 13:30	61.6	70.8	64.9	52.90
Tuesday 30/08/2022 14:00661.671.764.754.10Tuesday 30/08/2022 14:1560.072.063.849.50Tuesday 30/08/2022 14:3060.172.863.849.80Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 15:0060.273.263.949.90Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 13:45	60.0	72.6	63.5	50.90
Tuesday 30/08/2022 14:15660.072.063.849.50Tuesday 30/08/2022 14:3060.172.863.849.80Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 15:0060.273.263.949.90Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 14:00	61.6	71.7	64.7	54.10
Tuesday 30/08/2022 14:3060.172.863.849.80Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 15:0060.273.263.949.90Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 14:15	60.0	72.0	63.8	49.50
Tuesday 30/08/2022 14:4560.073.063.749.40Tuesday 30/08/2022 15:0060.273.263.949.90Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 14:30	60.1	72.8	63.8	49.80
Tuesday 30/08/2022 15:0060.273.263.949.90Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 14:45	60.0	73.0	63.7	49.40
Tuesday 30/08/2022 15:1559.270.163.248.40Tuesday 30/08/2022 15:3061.072.964.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 15:00	60.2	73.2	63.9	49.90
Tuesday 30/08/2022 15:30661.072.964.451.30Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 15:15	59.2	70.1	63.2	48.40
Tuesday 30/08/2022 15:4561.173.464.453.10Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 15:30	61.0	72.9	64.4	51.30
Tuesday 30/08/2022 16:0060.472.064.049.70Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 15:45	61.1	73.4	64.4	53.10
Tuesday 30/08/2022 16:1562.777.965.754.50Tuesday 30/08/2022 16:3062.372.365.553.30	Tuesday 30/08/2022 16:00	60.4	72.0	64.0	49.70
Tuesday 30/08/2022 16:30 62.3 72.3 65.5 53.30	Tuesday 30/08/2022 16:15	62.7	77.9	65.7	54.50
	Tuesday 30/08/2022 16:30	62.3	72.3	65.5	53.30



Tuesday 30/08/2022 16:45	62.2	73.9	65.4	53.50
Tuesday 30/08/2022 17:00	62.3	72.3	65.3	55.50
Tuesday 30/08/2022 17:15	62.6	71.5	65.5	56.00
Tuesday 30/08/2022 17:30	62.2	72.2	65.6	53.80
Tuesday 30/08/2022 17:45	62.2	72.3	65.6	52.60
Tuesday 30/08/2022 18:00	62.7	73.8	66.2	51.90
Tuesday 30/08/2022 18:15	63.1	72.5	66.4	52.10
Tuesday 30/08/2022 18:30	61.9	75.6	65.2	52.50
Tuesday 30/08/2022 18:45	61.5	72.2	65.2	51.10
Location	3			
Start Time	L <sub>Aeq</sub>	L <sub>AMax,f</sub>	L <sub>A10</sub>	L <sub>A90</sub>
Thursday 25/08/2022 16:15	59.6	76.4	58.1	42.2
Thursday 25/08/2022 16:30	59.6	69.2	58.5	38.7
Thursday 25/08/2022 16:45	59.2	67.6	57.8	39.9
Thursday 25/08/2022 17:00	60.2	78.2	58.7	44.6
Thursday 25/08/2022 17:15	60.4	70.0	59.3	44.8
Thursday 25/08/2022 17:30	59.9	73.4	58.5	44.0
Thursday 25/08/2022 17:45	61.3	83.5	58.6	44.9
Thursday 25/08/2022 18:00	60.0	73.6	58.0	43.1
Thursday 25/08/2022 18:15	58.7	69.1	56.1	40.4
Thursday 25/08/2022 18:30	58.5	70.7	54.8	41.4
Thursday 25/08/2022 18:45	58.3	72.9	56.0	42.3
Friday 26/08/2022 07:00	58.3	71.8	53.5	38.8
Friday 26/08/2022 07:15	58.6	69.0	54.8	39.3
Friday 26/08/2022 07:30	59.3	70.0	56.8	38.0
Friday 26/08/2022 07:45	58.9	68.2	57.1	40.4
Friday 26/08/2022 08:00	59.1	67.6	57.1	37.9
Friday 26/08/2022 08:15	59.4	70.1	56.9	39.8
Friday 26/08/2022 08:30	59.2	73.0	57.4	39.3
Friday 26/08/2022 08:45	58.3	69.3	54.1	37.8
Friday 26/08/2022 09:00	58.3	74.8	55.9	40.6
Friday 26/08/2022 09:15	57.7	69.5	55.3	34.8

Friday 26/08/2022 09:30	58.3	71.1	56.0	31.6
Friday 26/08/2022 09:45	58.0	69.2	55.8	38.1
Friday 26/08/2022 10:00	58.3	71.2	56.9	32.4
Friday 26/08/2022 10:15	57.4	69.5	54.9	35.9
Friday 26/08/2022 10:30	58.1	68.2	56.7	37.1
Friday 26/08/2022 10:45	58.2	71.4	56.7	39.2
Friday 26/08/2022 11:00	58.1	68.4	56.4	39.1
Friday 26/08/2022 11:15	58.5	72.9	57.0	41.4
Friday 26/08/2022 11:30	59.4	78.2	57.4	42.5
Friday 26/08/2022 11:45	58.6	68.7	57.1	42.6
Friday 26/08/2022 12:00	58.8	70.5	56.6	39.8
Friday 26/08/2022 12:15	59.1	67.7	57.6	41.0
Friday 26/08/2022 12:30	59.1	68.9	57.3	42.0
Friday 26/08/2022 12:45	58.5	70.3	56.0	41.1
Friday 26/08/2022 13:00	58.6	71.6	56.8	39.2
Friday 26/08/2022 13:15	59.0	68.8	57.5	44.6
Friday 26/08/2022 13:30	58.4	69.1	57.1	40.4
Friday 26/08/2022 13:45	58.1	69.4	56.3	41.0
Friday 26/08/2022 14:00	59.2	68.3	58.2	43.3
Friday 26/08/2022 14:15	59.0	69.6	57.6	44.3
Friday 26/08/2022 14:30	58.5	69.0	57.2	41.7
Friday 26/08/2022 14:45	58.5	70.8	56.6	32.5
Friday 26/08/2022 15:00	58.5	68.2	57.0	41.9
Friday 26/08/2022 15:15	58.8	70.6	57.5	39.5
Friday 26/08/2022 15:30	58.8	69.9	56.8	39.4
Friday 26/08/2022 15:45	59.2	68.8	57.8	44.2
Friday 26/08/2022 16:00	60.0	79.2	58.3	44.2
Friday 26/08/2022 16:15	59.3	69.0	58.2	41.7
Friday 26/08/2022 16:30	59.4	70.0	58.2	40.6
Friday 26/08/2022 16:45	59.0	69.1	57.2	41.6
Friday 26/08/2022 17:00	59.1	68.3	57.8	41.3
Friday 26/08/2022 17:15	59.6	68.5	58.9	45.5
Friday 26/08/2022 17:30	58.7	67.2	57.1	39.0
Friday 26/08/2022 17:45	58.7	68.4	56.9	39.7

Friday 26/08/2022 18:00	58.7	70.7	56.6	41.6
Friday 26/08/2022 18:15	58.6	68.7	56.1	39.8
Friday 26/08/2022 18:30	58.9	70.1	56.9	43.1
Friday 26/08/2022 18:45	57.7	68.1	53.5	37.3
Saturday 27/08/2022 08:00	56.1	66.5	51.0	36.0
Saturday 27/08/2022 08:15	58.4	82.7	52.3	35.5
Saturday 27/08/2022 08:30	57.2	67.8	52.9	38.6
Saturday 27/08/2022 08:45	56.6	70.8	53.1	38.8
Saturday 27/08/2022 09:00	57.1	68.2	53.5	39.5
Saturday 27/08/2022 09:15	57.8	68.3	55.3	40.6
Saturday 27/08/2022 09:30	57.7	67.3	55.8	40.4
Saturday 27/08/2022 09:45	57.2	74.1	55.0	41.3
Saturday 27/08/2022 10:00	57.1	68.1	54.0	39.7
Saturday 27/08/2022 10:15	57.5	68.0	55.3	41.4
Saturday 27/08/2022 10:30	58.8	75.4	57.3	41.6
Saturday 27/08/2022 10:45	57.7	66.1	56.1	38.1
Saturday 27/08/2022 11:00	57.6	66.3	55.9	38.0
Saturday 27/08/2022 11:15	58.0	69.4	56.1	36.1
Saturday 27/08/2022 11:30	57.2	70.5	55.2	36.4
Saturday 27/08/2022 11:45	58.2	68.9	56.8	38.7
Saturday 27/08/2022 12:00	57.1	68.6	55.6	37.7
Saturday 27/08/2022 12:15	58.1	69.5	56.4	38.3
Saturday 27/08/2022 12:30	57.3	67.3	55.6	36.0
Saturday 27/08/2022 12:45	57.8	67.9	56.4	39.9
Monday 29/08/2022 07:00	54.8	69.7	48.6	35.2
Monday 29/08/2022 07:15	54.1	67.5	47.2	34.8
Monday 29/08/2022 07:30	55.3	69.8	49.0	35.3
Monday 29/08/2022 07:45	55.2	69.0	49.4	35.9
Monday 29/08/2022 08:00	56.1	71.1	49.9	39.7
Monday 29/08/2022 08:15	55.2	67.8	48.3	37.4
Monday 29/08/2022 08:30	56.5	71.2	49.8	36.5
Monday 29/08/2022 08:45	56.7	80.3	49.6	37.1



Monday 29/08/2022 09:00	55.7	73.3	48.8	37.7
Monday 29/08/2022 09:15	59.3	86.0	51.0	38.4
Monday 29/08/2022 09:30	56.7	72.9	53.6	38.8
Monday 29/08/2022 09:45	56.0	67.2	52.2	38.4
Monday 29/08/2022 10:00	55.9	66.4	52.4	36.3
Monday 29/08/2022 10:15	56.5	66.5	54.7	38.2
Monday 29/08/2022 10:30	57.4	68.0	55.3	40.5
Monday 29/08/2022 10:45	56.8	70.5	54.3	38.5
Monday 29/08/2022 11:00	56.5	65.0	54.6	36.7
Monday 29/08/2022 11:15	57.6	70.5	55.9	39.5
Monday 29/08/2022 11:30	57.3	67.0	55.6	40.6
Monday 29/08/2022 11:45	57.7	76.3	55.4	38.2
Monday 29/08/2022 12:00	56.7	71.1	54.3	35.4
Monday 29/08/2022 12:15	57.4	71.5	55.8	40.9
Monday 29/08/2022 12:30	57.5	71.1	56.0	40.6
Monday 29/08/2022 12:45	57.8	68.6	55.9	43.5
Monday 29/08/2022 13:00	57.5	71.0	55.9	41.4
Monday 29/08/2022 13:15	57.3	66.8	55.9	43.1
Monday 29/08/2022 13:30	57.1	66.4	55.1	41.4
Monday 29/08/2022 13:45	57.5	68.7	56.5	44.0
Monday 29/08/2022 14:00	58.0	67.6	56.6	44.4
Monday 29/08/2022 14:15	58.3	76.1	56.2	43.1
Monday 29/08/2022 14:30	58.7	78.3	56.6	43.3
Monday 29/08/2022 14:45	57.7	70.2	55.5	41.6
Monday 29/08/2022 15:00	56.6	68.3	53.4	41.1
Monday 29/08/2022 15:15	56.9	67.2	54.7	41.0
Monday 29/08/2022 15:30	57.0	66.2	54.2	41.0
Monday 29/08/2022 15:45	59.3	82.1	56.3	43.4
Monday 29/08/2022 16:00	57.9	69.3	55.7	43.2
Monday 29/08/2022 16:15	57.0	69.6	54.0	40.3
Monday 29/08/2022 16:30	57.7	70.7	55.8	42.3
Monday 29/08/2022 16:45	57.5	66.9	55.2	40.9
Monday 29/08/2022 17:00	58.3	73.2	55.5	41.9
Monday 29/08/2022 17:15	58.0	67.2	56.1	40.4

Monday 29/08/2022 17:30	57.7	67.7	55.8	41.7
Monday 29/08/2022 17:45	57.7	72.1	54.4	39.0
Monday 29/08/2022 18:00	58.0	73.2	55.3	42.7
Monday 29/08/2022 18:15	57.3	76.0	50.8	34.9
Monday 29/08/2022 18:30	56.7	72.1	52.1	38.3
Monday 29/08/2022 18:45	56.7	71.5	52.1	40.4
Tuesday 30/08/2022 07:00	57.6	73.6	53.7	40.0
Tuesday 30/08/2022 07:15	58.9	73.2	57.3	44.5
Tuesday 30/08/2022 07:30	59.0	67.8	57.7	46.4
Tuesday 30/08/2022 07:45	58.8	69.9	57.1	44.6
Tuesday 30/08/2022 08:00	59.0	69.5	57.4	44.2
Tuesday 30/08/2022 08:15	60.0	69.8	58.6	45.6
Tuesday 30/08/2022 08:30	59.5	69.8	58.0	45.3
Tuesday 30/08/2022 08:45	59.0	68.4	57.4	43.7
Tuesday 30/08/2022 09:00	58.4	68.1	56.4	43.9
Tuesday 30/08/2022 09:15	58.1	73.1	56.1	42.4
Tuesday 30/08/2022 09:30	58.6	69.2	56.7	44.2
Tuesday 30/08/2022 09:45	59.0	73.0	57.2	45.1
Tuesday 30/08/2022 10:00	57.9	67.4	55.3	41.9
Tuesday 30/08/2022 10:15	58.7	80.0	56.6	43.2
Tuesday 30/08/2022 10:30	58.3	69.3	56.7	43.8
Tuesday 30/08/2022 10:45	57.7	68.0	55.6	41.9
Tuesday 30/08/2022 11:00	58.4	69.1	56.7	42.9
Tuesday 30/08/2022 11:15	58.6	68.9	56.9	44.5
Tuesday 30/08/2022 11:30	58.1	68.3	56.7	44.1
Tuesday 30/08/2022 11:45	57.6	71.0	55.4	39.9
Tuesday 30/08/2022 12:00	57.2	74.6	54.7	42.4
Tuesday 30/08/2022 12:15	57.8	69.8	56.1	42.1
Tuesday 30/08/2022 12:30	57.7	67.7	55.8	42.0
Tuesday 30/08/2022 12:45	57.8	69.8	55.7	43.2
Tuesday 30/08/2022 13:00	58.1	67.5	56.5	42.8
Tuesday 30/08/2022 13:15	57.5	68.5	54.8	40.0
Tuesday 30/08/2022 13:30	57.9	67.7	56.4	43.6



Tuesday 30/08/2022 13:45	57.7	68.4	55.6	41.9
Tuesday 30/08/2022 14:00	58.3	68.1	57.0	43.4
Tuesday 30/08/2022 14:15	58.6	85.2	56.4	40.5
Tuesday 30/08/2022 14:30	57.9	71.4	55.9	42.9
Tuesday 30/08/2022 14:45	57.6	70.9	55.6	42.4
Tuesday 30/08/2022 15:00	57.8	71.4	56.0	40.6
Tuesday 30/08/2022 15:15	57.1	68.4	55.2	40.2
Tuesday 30/08/2022 15:30	58.1	69.6	56.2	42.7
Tuesday 30/08/2022 15:45	58.1	71.1	56.4	43.8
Tuesday 30/08/2022 16:00	57.8	67.0	55.5	39.1
Tuesday 30/08/2022 16:15	59.2	74.4	57.8	46.5
Tuesday 30/08/2022 16:30	58.9	68.1	57.9	42.8
Tuesday 30/08/2022 16:45	58.7	68.9	56.7	42.3
Tuesday 30/08/2022 17:00	58.5	68.2	57.1	44.5
Tuesday 30/08/2022 17:15	59.4	76.1	57.6	44.5
Tuesday 30/08/2022 17:30	58.4	69.2	56.5	44.2
Tuesday 30/08/2022 17:45	58.8	68.2	57.4	42.2
Tuesday 30/08/2022 18:00	58.8	69.1	56.4	43.4
Tuesday 30/08/2022 18:15	59.1	72.5	56.5	43.5
Tuesday 30/08/2022 18:30	58.0	69.5	53.9	41.4
Tuesday 30/08/2022 18:45	58.0	68.9	54.6	42.9
Wednesday 31/08/2022 07:00	58.1	69.0	53.4	39.8
Wednesday 31/08/2022 07:15	58.7	70.2	56.1	43.7
Wednesday 31/08/2022 07:30	59.5	69.8	58.4	43.9
Wednesday 31/08/2022 07:45	58.9	70.4	57.7	43.1
Wednesday 31/08/2022 08:00	59.6	69.8	58.3	45.1
Wednesday 31/08/2022 08:15	60.1	80.7	57.8	41.7
Wednesday 31/08/2022 08:30	58.6	69.3	57.0	43.9
Wednesday 31/08/2022 08:45	58.1	73.2	55.7	43.8
Wednesday 31/08/2022 09:00	59.0	80.3	57.1	43.4
Wednesday 31/08/2022 09:15	57.9	74.4	56.1	42.5
Wednesday 31/08/2022 09:30	57.8	69.8	56.1	43.2
Wednesday 31/08/2022 09:45	57.9	67.7	56.0	44.8



Wednesday 31/08/2022 10:00	58.3	68.7	56.4	44.0
Wednesday 31/08/2022 10:15	58.0	70.0	55.8	42.7
Wednesday 31/08/2022 10:30	57.6	68.3	55.5	43.6
Wednesday 31/08/2022 10:45	57.3	69.2	54.8	42.9
Wednesday 31/08/2022 11:00	57.4	67.6	55.0	41.3
Wednesday 31/08/2022 11:15	57.5	68.1	55.6	44.1
Wednesday 31/08/2022 11:30	57.6	68.1	55.8	44.9
Wednesday 31/08/2022 11:45	58.4	67.4	56.1	45.8
Wednesday 31/08/2022 12:00	58.4	69.2	56.0	45.6
Wednesday 31/08/2022 12:15	57.7	70.0	55.6	43.9
Wednesday 31/08/2022 12:30	58.2	69.1	56.3	45.9
Wednesday 31/08/2022 12:45	57.8	72.0	56.1	44.9
Wednesday 31/08/2022 13:00	57.9	68.2	56.5	45.0
Wednesday 31/08/2022 13:15	57.4	69.3	55.4	42.8
Wednesday 31/08/2022 13:30	57.9	70.9	56.0	44.3
Wednesday 31/08/2022 13:45	58.0	68.7	56.4	42.8
Wednesday 31/08/2022 14:00	58.0	68.5	56.6	45.1
Wednesday 31/08/2022 14:15	57.3	67.8	55.8	42.3
Wednesday 31/08/2022 14:30	57.7	70.2	56.0	41.4
Wednesday 31/08/2022 14:45	57.1	66.7	55.5	41.3
Wednesday 31/08/2022 15:00	57.3	71.7	55.0	42.7
Wednesday 31/08/2022 15:15	58.2	75.5	56.4	42.1
Wednesday 31/08/2022 15:30	58.2	68.3	56.4	44.9
Wednesday 31/08/2022 15:45	58.4	67.8	56.7	43.1
Wednesday 31/08/2022 16:00	58.2	69.6	56.9	42.8
Wednesday 31/08/2022 16:15	58.3	68.9	56.5	42.5
Wednesday 31/08/2022 16:30	59.1	68.4	58.1	42.0
Wednesday 31/08/2022 16:45	58.7	67.9	57.3	42.1
Wednesday 31/08/2022 17:00	59.5	69.4	58.4	43.7
Wednesday 31/08/2022 17:15	59.2	68.2	58.3	43.5
Wednesday 31/08/2022 17:30	59.1	68.1	58.2	44.1
Wednesday 31/08/2022 17:45	58.7	68.1	57.0	42.8
Wednesday 31/08/2022 18:00	58.2	68.5	56.2	44.1
Wednesday 31/08/2022 18:15	58.3	71.7	55.7	41.3

Wednesday 31/08/2022 18:30	57 7	77 3	54.0	40.7
Wednesday 31/08/2022 18:50	57.7	71.3	54.0	40.7
Weullesuay 51/06/2022 16.45	57.5	71.4	55.0	41.0
Thursday 01/09/2022 07:00	58.3	68.3	55.7	39.2
Thursday 01/09/2022 07:15	58.9	71.1	56.2	45.2
Thursday 01/09/2022 07:30	58.9	68.4	57.8	44.9
Thursday 01/09/2022 07:45	59.2	69.1	57.7	42.6
Thursday 01/09/2022 08:00	59.4	69.2	58.2	44.4
Thursday 01/09/2022 08:15	59.5	69.8	58.4	46.2
Thursday 01/09/2022 08:30	58.9	68.9	57.8	43.6
Thursday 01/09/2022 08:45	58.8	70.0	57.0	43.1
Thursday 01/09/2022 09:00	58.6	69.6	56.0	43.5
Thursday 01/09/2022 09:15	58.6	69.4	56.6	42.2
Thursday 01/09/2022 09:30	62.7	89.4	57.1	44.2
Thursday 01/09/2022 09:45	58.7	70.1	56.5	43.2
Thursday 01/09/2022 10:00	58.5	73.5	56.1	42.9
Thursday 01/09/2022 10:15	57.8	72.3	55.2	42.7
Thursday 01/09/2022 10:30	58.2	69.6	56.2	43.7
Thursday 01/09/2022 10:45	58.6	71.0	56.4	43.5
Thursday 01/09/2022 11:00	58.6	68.2	57.2	43.2
Thursday 01/09/2022 11:15	58.2	68.1	56.4	43.2
Thursday 01/09/2022 11:30	59.3	70.6	57.6	43.7
Thursday 01/09/2022 11:45	58.3	71.1	56.5	41.5
Thursday 01/09/2022 12:00	58.2	71.7	55.9	42.5
Thursday 01/09/2022 12:15	58.3	69.5	56.6	43.8
Thursday 01/09/2022 12:30	58.0	69.3	56.0	42.5
Thursday 01/09/2022 12:45	58.8	69.8	56.8	44.0
Thursday 01/09/2022 13:00	58.5	71.8	56.5	41.9
Thursday 01/09/2022 13:15	58.5	69.6	56.9	42.5
Thursday 01/09/2022 13:30	58.2	69.7	56.3	42.6
Thursday 01/09/2022 13:45	58.9	69.2	57.4	44.0
Thursday 01/09/2022 14:00	59.3	74.9	57.7	43.4
Thursday 01/09/2022 14:15	58.8	70.2	57.4	43.9
Thursday 01/09/2022 14:30	58.9	74.2	57.0	41.9



Thursday 01/09/2022 14:45	57.9	72.4	56.1	42.0
Thursday 01/09/2022 15:00	58.6	68.8	56.7	42.6
Thursday 01/09/2022 15:15	58.3	69.3	57.0	43.4
Thursday 01/09/2022 15:30	58.9	77.4	57.3	42.1
Thursday 01/09/2022 15:45	59.1	69.2	57.6	45.5
Thursday 01/09/2022 16:00	58.2	68.6	56.2	42.8
Thursday 01/09/2022 16:15	59.0	68.2	58.1	40.9
Thursday 01/09/2022 16:30	59.1	68.8	57.9	43.4
Thursday 01/09/2022 16:45	59.1	68.1	57.8	40.7
Thursday 01/09/2022 17:00	59.7	74.1	58.5	44.5
Thursday 01/09/2022 17:15	59.4	69.0	58.5	42.2
Thursday 01/09/2022 17:30	59.6	69.9	58.3	42.6
Thursday 01/09/2022 17:45	58.9	67.2	57.7	40.1
Thursday 01/09/2022 18:00	58.2	68.8	56.1	39.5
Thursday 01/09/2022 18:15	58.5	66.7	56.5	40.7
Thursday 01/09/2022 18:30	58.7	68.7	56.6	41.1
Thursday 01/09/2022 18:45	57.1	72.6	53.0	35.4
Friday 02/09/2022 07:00	58.7	70.1	53.8	40.6
Friday 02/09/2022 07:15	59.7	69.7	57.2	41.5
Friday 02/09/2022 07:30	59.1	70.9	57.4	41.2
Friday 02/09/2022 07:45	59.8	77.2	58.0	41.8
Friday 02/09/2022 08:00	59.9	77.1	57.4	39.8
Friday 02/09/2022 08:15	59.6	76.5	57.5	44.3
Friday 02/09/2022 08:30	59.0	69.8	56.9	43.9
Friday 02/09/2022 08:45	57.9	68.9	54.7	41.1
Friday 02/09/2022 09:00	57.8	72.7	54.9	41.1
Friday 02/09/2022 09:15	57.8	72.0	55.4	40.2
Friday 02/09/2022 09:30	58.8	72.5	56.8	42.3
Friday 02/09/2022 09:45	59.3	73.3	57.1	41.0
Friday 02/09/2022 10:00	58.1	70.6	55.5	38.5
Friday 02/09/2022 10:15	57.3	71.8	55.2	35.2
Friday 02/09/2022 10:30	57.9	69.0	56.3	37.2
Friday 02/09/2022 10:45	58.1	70.1	56.3	38.4

Friday 02/09/2022 11:00	63.2	84.3	57.5	43.1



#### **EUROPEAN OFFICES**

#### **United Kingdom**

AYLESBURY T: +44 (0)1844 337380

BELFAST T: +44 (0)28 9073 2493

BRADFORD-ON-AVON T: +44 (0)1225 309400

 BRISTOL
 NEWCASTLE UPON TYNE

 T: +44 (0)117 906 4280
 T: +44 (0)191 261 1966

CARDIFF T: +44 (0)29 2049 1010

CHELMSFORD T: +44 (0)1245 392170

EDINBURGH T: +44 (0)131 335 6830

EXETER T: + 44 (0)1392 490152

GLASGOW T: +44 (0)141 353 5037

GUILDFORD T: +44 (0)1483 889800

#### Ireland

DUBLIN T: + 353 (0)1 296 4667

#### France

LONDON

MAIDSTONE

MANCHESTER T: +44 (0)161 872 7564

NOTTINGHAM

SHEFFIELD

**SHREWSBURY** 

STIRLING

WORCESTER

T: +44 (0)115 964 7280

T: +44 (0)114 245 5153

T: +44 (0)1743 23 9250

T: +44 (0)1786 239900

T: +44 (0)1905 751310

T: +44 (0)203 805 6418

T: +44 (0)1622 609242

GRENOBLE T: +33 (0)6 23 37 14 14

### www.slrconsulting.com

