

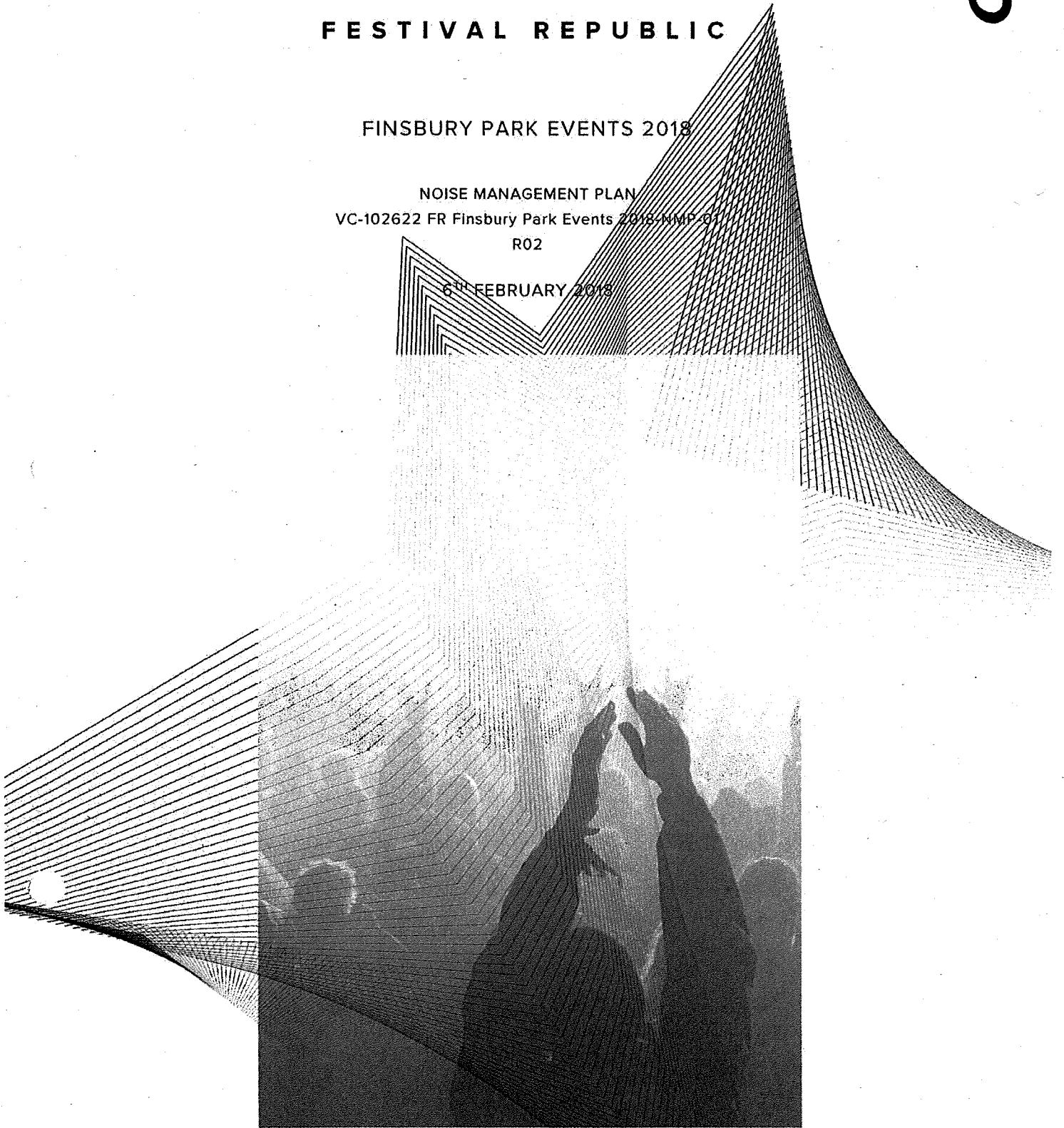


FESTIVAL REPUBLIC

FINSBURY PARK EVENTS 2018

NOISE MANAGEMENT PLAN
VC-102622 FR Finsbury Park Events 2018-NMP-01
R02

6TH FEBRUARY 2018



VANGUARDIA
LTD

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1. INTRODUCTION

- 1.1. Vanguardia Consulting has been appointed by Festival Republic to prepare a Noise Management Plan to set out the noise management procedures to be adopted during the forthcoming concerts to be held in Finsbury Park in 2018.
- 1.2. This (NMP) is submitted in support of the application for the proposed concerts specified below. This table also details the start and finish times of the events.

DATE	EVENT	DOORS	LIVE MUSIC	CURFEW
Friday 29th June	Liam Gallagher	13:30	15:30	22:30
Saturday 30th June	QOTSA	11:00	12:30	22:30
Sunday 1st July	Community	11:00	12:30	22:00
Friday 6th July	Wireless	13:30	15:30	22:30
Saturday 7th July	Wireless	11:00	12:30	22:30
Sunday 8th July	Wireless	11:00	12:30	22:00

- 1.3. The purpose of this document is to describe the sound monitoring and management scheme that will be put in place to manage the music noise levels at residential properties. The practical measures that should be adopted to achieve compliance with noise conditions are described in Section 3.
- 1.4. It is intended that this is considered a 'live' working document which may evolve further with ongoing liaison between the event promoter and The London Borough of Haringey.
- 1.5. A glossary of acoustic terms is shown in Appendix A.

2. LICENCE CONDITIONS

2.1. The relevant conditions relating to noise levels at residential locations are based on the limits provided in the established guidance contained in the Noise Council's Code of Practice on Environmental Noise Control at Concerts (1995) and are reproduced below:

THE PREVENTION OF PUBLIC NUISANCE

1. The Licensee will contract a competent acoustic consultant who, in liaison with the Licensing Authority will produce a Noise Management Plan specific to the event. The acoustic consultant representative will be on site throughout the event to ensure that noise levels are met.

DEALING WITH COMPLAINTS

2. A complaints book or electronic record will be held on the premises to record details of any complaints received from neighbours through the dedicated noise line and the action taken. The information is to include, where disclosed, the complainant's name, location, date time and subsequent remedial action undertaken. This record must be made available at all times during the event for inspection by council officers of the initial record. Records must be submitted to the Licensing team with a final log to be submitted within a further 7 days.

3. The Premises Licence holder / appointed noise consultant shall be aware of the guidance contained in the Code of Practice on Environmental Noise Control at Concerts or any subsequent equivalent Guidance and make use of its recommendations where appropriate to the circumstances of this application.

4. Information provided to residents and businesses 2 weeks prior to the event must include a synopsis of information about the event including dates and times based upon the Premises Licence application, information on how it is intended residents will be protected from excessive noise and details of a dedicated and live complaints telephone line. The Licensing team will provide a list of roads within a reasonable distance from the Park specifying the required distribution list. A draft of the letter to residents and businesses must be provided to the Haringey Licensing team no later than 5 weeks prior to the event.

ANNEX 2 – CONDITIONS CONSISTENT WITH THE OPERATING SCHEDULE

7. On the day before and on days during the event sound checks and rehearsals shall not exceed 90 minutes duration within an agreed 3 hour window. Times of sound checks and rehearsal will be agreed by the Licensing Authority with a final log to be submitted within a further 7 days. Sound checks and rehearsals are not permitted on any other day.

8. Monitoring of the locations representative of the noise sensitive premises (indicated below) must be undertaken by the appointed noise consultant on behalf of the Premises Licence holder throughout the times

where there is regulated entertainment of any kind and readings / noise levels must be stored for subsequent reporting or disclosure to appointed Licensing Authority representatives as they are obtained and upon request at any time. A minimum of two persons must be available outside the park to monitor noise levels and to provide a response to complainants.

9. Table of Approved locations representative of the noise sensitive premises likely to experience the greatest increase in noise levels as a result of events held in Finsbury Park N4 and permitted noise levels.

Sound levels at the representative locations

LOCATION	BACKGROUND NOISE LEVEL [HOURLY LA90] 19:00-23:00HRS	NOTES
SEVEN SISTERS ROAD, N4	63 dB(A)	TAKEN APPROX. MID-WAY ALONG PARK LENGTH. VERY BUSY MAIN ROAD-TRAFFIC PREDOMINATES.
ADOLPHUS ROAD, N4	51 dB(A)	TAKEN MID-WAY BETWEEN GLOUCESTER DRIVE & ALEXANDRA GROVE. RUNS PARALLEL TO SEVEN SISTERS RD- MINIMAL TRAFFIC- SHIELDED BY MEDIUM RISE FLATS.
WOODSTOCK ROAD, N4*	47 dB(A)	TAKEN AT NORTH BEND. SEPARATED FROM PARK BY BUSY RAILWAY LINE- REAR BEDROOMS FACE PARK.
STAPLETON HALL ROAD, N4	41 dB(A)	TAKEN 30M EAST OF JUNCTION WITH QUERNMORE RD. RESIDENTIAL- MINIMAL TRAFFIC-LOCATED ON A HILL OVERLOOKING NORTH SIDE OF PARK.
LOTHAIR ROAD SOUTH, N4	46 dB(A)	TAKEN 30M EAST OF JUNCTION WITH ALROY RD. PARALLEL TO ENDYMION RD.
ROWLEY GARDENS, N4	49 dB(A)	TAKEN CENTRE OF "QUADRANGLE". ON EAST SIDE OF PARK & IN MIDDLE OF HIGH RISE FLATS.

*Note: The noise monitoring location on Woodstock Road has been agreed as being in the car park opposite Stroud Green Primary School.

10. Sound levels should not exceed the above background by more than 15dB when measured as a 15 minute LAeq.

11. Any reasonable request of the Licensing officer representative will be complied with by the Premises Licence holder in regard to sound levels.

GENERAL

12. A Noise Management Plan which is regularly updated in the run up to the event and is a "Live" document will be made available to the Licensing Authority and their representatives.

2.2. Therefore, taking the measured background noise levels provided above, the music noise limits at the locations representative of the nearest noise sensitive properties are as follows:

LOCATION	BACKGROUND NOISE LEVEL [HOURLY LA90] 19:00-23:00HRS	NOISE LIMIT (dBLAeq,15MIN)
SEVEN SISTERS ROAD, N4	63 dB(A)	78 dB(A)
ADOLPHUS ROAD, N4	51 dB(A)	66 dB(A)
WOODSTOCK ROAD, N4	47 dB(A)	62 dB(A)
STAPLETON HALL ROAD, N4	41 dB(A)	56 dB(A)
LOTHAIR ROAD SOUTH, N4	46 dB(A)	61 dB(A)
ROWLEY GARDENS, N4	49 dB(A)	64 dB(A)

3. NOISE MANAGEMENT PLAN

- 3.1. Careful consideration will be given to implementing and exercising a noise management programme during sound checks and events to control entertainment noise from the venue.
- 3.2. The noise management programme fundamentally follows the procedures that have been successfully adopted at outdoor concerts and festivals over the past 20 years throughout the UK and are detailed below:

SITE / SOUND SYSTEM DESIGN

- 3.3. Careful consideration will be made to find the most appropriate site layout that would minimise the noise impact at off-site locations.
- 3.4. Careful and detailed alignment of the sound systems will be ensured to optimise the coverage throughout the audience areas and balance this against the off-site environmental noise impact.
- 3.5. The sound system should be set up in such a way as to minimise the noise impact at noise sensitive properties. The sound system is to be a 'line-array' which provides improved sound coverage and reduced overspill to intended coverage areas. It is recommended that the sound system is hung as low as possible in order to take advantage of any barriers provided around the event arena and minimise the distance between the sound sources and audience areas. The loudspeakers should have as narrow horizontal dispersion as possible to reduce overspill from the intended coverage area. Sub-bass loudspeaker units should be set up and configured in a cardioid arrangement in order to take advantage of phase cancellation at the backs and sides of the loudspeaker stacks. An example of a cardioid sub bass speaker arrangement is to stack them three units high and turn the middle unit around 180 degrees. In addition, multi-band compression and graphic equalizer units should be included as part of every sound system in order to control and limit the output from the sound systems.
- 3.6. The appointed sound system suppliers will be informed of the requirements of noise control and the location / orientation of their systems. Their contract of hire should also specify that the overall control of sound levels will be set by the event Promoter and/or their appointed agent (acoustic consultants).

PRE EVENT INFORMATION

- 3.7. Vanguardia will set up a direct means of communications with all parties. The event promoter will provide Vanguardia staff with site radios.

- 3.8. A dedicated radio channel will be provided for Vanguardia consultants.
- 3.9. A letter or newspaper advertisement will be circulated to local residents at least 2 weeks prior to each event, informing them of the details of the event and including start and finish times. The advertisement will also include a dedicated telephone number for noise complaints.
- 3.10. A telephone complaints line will be made available for the duration of the event. Should any noise complaints be received, the local authority will be informed and the complaint will be investigated. If noise levels are above those specified in the licence conditions, immediate action would be taken to reduce the levels at the noise source. A complaints log will be maintained throughout the event detailing addresses of complaints, times and actions.
- 3.11. Vanguardia and the event promoter will work with Haringey Council to establish and agree the noise complaints line protocol. It is anticipated that the Council's and event complaints hotlines will be situated close together in Event Control and Haringey Council will notify the event promoter of any noise complaints received via the Council's complaint line so they may be added to the event log and Vanguardia consultants notified.
- 3.12. The communication protocol will be reviewed to ensure effective and responsive communication channels are established and maintained between all relevant parties throughout the duration of each event.
- 3.13. Vanguardia will review any other noise sources and work with the promoter and the Council to minimise noise disturbance.
- 3.14. Vanguardia will undertake sound tests prior to each event to determine a correlation between inside and outside sound levels. The limits set will be agreed with the Council's Environmental Health Officer and the correlation checked at regular intervals throughout the event.
- 3.15. Permanent noise monitors will be provided at the mixer desk positions of each principal stage.
- 3.16. All noise meters will comply with the required standards and be calibrated.
- 3.17. The promoter will advise the environmental health department of the likely times of rehearsals and sound checks, although this is unlikely to be known until very near the production set up. The promoter will also agree timings for production set up.
- 3.18. Vanguardia will liaise with the Council and comply with their complaints procedure.
- 3.19. The event promoter and Vanguardia will comply with any reasonable instructions given by the licensing authority.

3.20. Vanguardia will provide consultants and technicians to monitor the internal and external noise levels.

SOUND MANAGEMENT PROCEDURES

- 3.21. In 2010 the Noise Policy Statement for England (NPSE) was published. This document is the overarching guide to current noise policy in England and includes noise from licensed premises (classed as neighbourhood noise).
- 3.22. The second aim of the NPSE requires that all reasonable steps should be taken to mitigate and minimise adverse effects on health and quality of life while also taking into account the guiding principles of sustainable development. The key phrase is - that this does not mean that such adverse effects cannot occur. It is a matter of balancing the impact of the music events held at the venue with the needs of the local community.
- 3.23. With this in mind, the measures in the NMP will be implemented so that the noise limits are met. In addition to this, a subjective assessment will also be made of low frequency noise levels and appropriate action taken if required.

SOUND PROPAGATION AND PRE-EVENT TESTS

- 3.24. Prior to the event, the production team will carry out short sound checks and as part of this process, acoustic consultants will undertake sound propagation tests to correlate the music noise levels at the mixing desk with those observed at the most sensitive sound control positions. The results of these tests will be used to 'fine tune' the sound systems in order to maximise the containment of music and set an appropriate sound limit at the mixer position. Sound propagation test times will be agreed with the local authority.
- 3.25. The local authority environmental health officers will be provided access to the results of the sound propagation tests on request.

SOUND MANAGEMENT WITHIN THE VENUE

- 3.26. The music sound levels at the mixing desk positions will be continually monitored in terms of 15 minute and 1 minute LAeq values. The noise limit will be set in 15-minute intervals but the 1-minute values provide acoustic consultants with immediate information to check that the noise limits are being met. The sound engineers will be continually informed of the position of the music noise levels and immediate instructions will be issued to them if it appears that the limit may be exceeded at any point. The Acoustic consultants at the mixer desk positions will be in radio contact with colleagues at external monitoring positions.

- 3.27. As part of the managerial process, the sound engineer of each artiste appearing at events will be informed prior to arriving at the mixer of the need to adhere to the sound limits and instructions issued to them in relation to sound control.
- 3.28. A routine inspection of any peripheral activities associated with events will be carried out to ensure that any PA systems are turned off and remain off after the advertised finish time of the event each day.

SOUND MONITORING OUTSIDE OF THE VENUE

- 3.29. Noise measurements outside of the site will be taken at the approved locations representative of the nearest noise sensitive premises and at other off-site locations in response to any complaints that may be received. In accordance with condition 8, there will be two persons outside monitoring the off-site music noise levels. Action necessary check that the noise limit is not exceeded will be transmitted by radio through to the acoustic consultant team at the mixer positions and immediate instructions issued to the sound engineers to resolve any potential problems.
- 3.30. It is proposed that Vanguardia consultants will measure music noise levels at the monitoring locations specified in the premises licence conditions and respond to noise complaints in the local area. Haringey Council Environmental Health Officers will be available to respond to complaints further from the event site.

NEW FOR 2018

- 3.31. For 2018 there will be an increased use of the Metrao monitoring system. The MeTrao is a networked sound level meter which when connected to the server via the internet looks for patterns in the sound that correlate between onsite stages and offsite monitoring locations.
- 3.32. There is an improved version of the Metrao software which incorporates the 'super correlator' using pattern recognition to facilitate the identification of particular frequencies especially in relation to the low frequency bass part of the music spectrum.
- 3.33. It is also capable of separating out the site sound levels from the background noise offsite. This is particularly relevant in noisy urban locations where road traffic noise can interfere with the offsite measurements.
- 3.34. Metrao gives clear information about the stage most likely to be causing the rise in levels, pinpointing this to third octave frequencies. This allows for more focused and precise management of levels at multistage events such as those to be held in Finsbury Park this year.

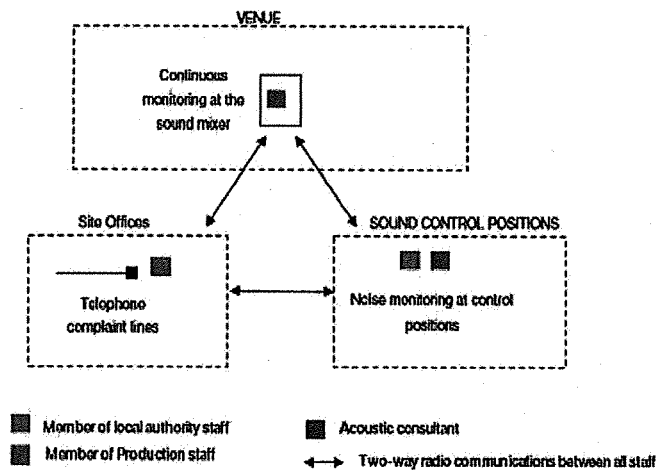
3.35. The enhanced capability of the Metrao monitoring system to identify particular frequencies enables a quick response particularly where low frequency disturbance is becoming a problem. The response times are faster and the identified frequency can quickly be reduced.

3.36. Experience has shown that with early identification of elevated low frequency levels using the Metrao system those frequencies can be moderated quickly and accordingly the number of complaints received about low frequency are significantly reduced.

TELEPHONE COMPLAINTS LINE

3.37. A telephone complaints line is yet to be confirmed.

3.38. A schematic of the control communication protocol is provided below:



SUMMARY REPORTING

3.39. A summary report will be produced after the events which will include all the noise level measurements made at each position. This will be made available to the local authorities.

APPENDIX A- GLOSSARY OF TERMS

A-WEIGHTING

The human ear is not equally sensitive to all frequencies of sound. It is relatively much less sensitive to very low frequencies such as 'mains hum', and to very high frequencies such as the call of a bat, than to the 'mid-frequencies' important for human voice communication. In order to make sound level meters, which would otherwise be indiscriminate in registering sound pressures, respond in a way which reflects human perception of sound, they usually are fitted with a set of filters to progressively filter out the high and low frequency energy. The filters are made to an internationally standardised specification and the filtered noise level is said to be 'A-weighted'. Sometimes A-weighted decibel levels are denoted 'dB(A)', but the correct, internationally standardised format for reporting requires the 'A' to be appended to the noise descriptor e.g. LAeq,T, LAmax, etc.

AMBIENT NOISE

This is the totally encompassing sound at the measurement position over a specified time interval and usually comprises sound from many different sources both near and far.

ATTENUATION

A general term used to indicate the reduction of noise, or the amount (in decibels) by which it is reduced.

AVERAGING

In the absence of a dominant steady source, the sound level at a point, indoors or outdoors, varies continuously. For example, the variation may be over a few dB about an average value in a quiet room, or over 10 dB or more in a noisy outdoor environment. In order to define a level to represent the relative level of noise in the space it is necessary to define that average value. The most common averaging methods are energy averaging (LAeq) and statistical averaging (LAN where N is a percentage between 1 and 100). The LA10,T, the noise level exceeded for 10% of the measurement time interval T, is commonly used in the UK for the assessment of road traffic noise.

BACKGROUND NOISE LEVEL, LA90,T

Background noise level is a term used to describe that level to which the noise falls during quiet spells, when there is lull in passing traffic for example. It is quantified by the LA90,T which is the noise level that is exceeded for 90% of the measurement time interval, T.

DECIBELS

Noise conventionally is measured in decibels (dB). The decibel is a logarithmic unit and decibel levels do not add and subtract arithmetically. An increase or decrease of 3 dB in the level of a steady noise is about the smallest that is noticeable. It represents a doubling or halving of noise energy. An increase or decrease of 10 dB represents a ten-fold change in noise energy, and is perceived as a doubling or halving of loudness. The threshold of hearing for a typical young, healthy adult is 0 dB A-weighted sound pressure level. A noise level of 140 dB(A) can cause physical pain. Most people listen to their televisions at about 60 to 65 dB(A). Alongside a busy main road the ambient noise level may be in the 70 to 80 dB(A) range; on a quiet day in the country it might be as low as 30 dB, in town 40 to 50 dB(A).

DECIBEL ADDITION

If two similar noise sources operate together their combined noise level at an observer's position some distance away is 3 dB higher than the noise level generated by just one of them. If two further machines are switched on the noise level generated by all four at the observer's position is 3 dB higher than the level generated by the two. If the number of machines is again doubled, to eight, the noise level increases by another 3 dB, and so on.

EQUIVALENT CONTINUOUS A-WEIGHTED SOUND PRESSURE LEVEL, LAeq,T

The 'equivalent continuous A-weighted sound pressure level' is an average of the fluctuating sound energy in a space. It is the value of the A-weighted sound pressure level of a continuous, steady sound that, over the specified time period, T seconds, has the same root mean square sound pressure as the varying sound. It can be likened to the mean petrol consumption of a car over a specific journey during which the instantaneous consumption peaked during periods of acceleration and fell during periods of coasting or braking.

FAÇADE SOUND LEVELS

Road and railway traffic noise levels often are specified in terms of the sound level at a position 1 m in front of the most exposed façade of potentially noise sensitive premises. Such levels are assumed to be 3 dB(A) higher than sound levels measured at an equivalent position away from the noise reflected off the building façade and any other surfaces (excluding the ground).

MUSIC NOISE LEVELS (MNL)

The LAeq of the music noise measured at a particular location.

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WIRELESS FESTIVAL 2018

Wireless Festival Egress Summary –V4

(Please note this egress plan will also apply to Liam Gallagher – 29/06, Queens of the Stone Age – 30/06 and Community Festival on 01/07 –Sunday timings will be 30mins earlier)

1. The capacity of the events will return to 45,000 following a decrease for 2017. This has been signed off by the SAG.
2. The finish times of the events will also revert back to the licence timings as agreed in the January SAG.
3. Seven Sisters Road will now be used as standard in the egress to support the moat.
4. All routes will be carefully and clearly signed, delineated and staffed. The routes will be given out in advance to the attendees so that they will not be unexpected. Timings of each route will be shown live on the electronic messaging systems that we have on site – including stage screens throughout the day, VMS and dot matrix signs, PA broadcasts and the event app etc
5. Additional LED signage and lighting will be used above India Gates 1, 2 and 3 to encourage customers to utilize all 3 exit gates.
6. The audience will still be encouraged to use the moat where possible to reduce the impact on local residents.
7. Increased security will be provided in the Hackney side streets to ensure the safety and security of local residents and event goers alike.

1.0 KEY EGRESS TIMINGS

Friday and Saturday

(All below times 30 mins earlier on Sunday)

Show down @ 2230hrs Friday 6th July

Show down @ 2230hrs Saturday 7th July

Show down @ 2200hrs Sunday 8th July

TIME	LOCATION	ACTION
20:30	Arena Entrance	Begin heras line build across entrance
20:30	Between Finsbury Park Gate and SGR	Barrier build commences
21:00	Arena Entrance	Closes to egressing crowds
21:00	Hotel Gate / India 3	Open to egressing crowds
21:00	Moat / Dog Leg	Egress route swept
21:00	Manor House Pavement	Egress barrier build commences
21:30	SGR / Station Place	Barrier build commences
21:30	All egress locations (aside from SSR)	All barrier and stewards in position
21:30	Stroud Green Road	Road closure in place
22:10	Seven Sisters Road	Soft road closure in place
22:10	Seven Sisters Road (North & South)	Vehicle Mitigation in Place
22:10	Seven Sisters Road	Barrier build at Manor House
22:20	Seven Sisters Road	Road sterile
22:30	SHOW DOWN	SHOW DOWN
Fluid	Tims Gap	Heras fence line removed
23:15	Seven Sisters Road	First steward sweep to remove stragglers from road
23:15	Seven Sisters Road (South & North)	Barrier removed
23:25	Seven Sisters Road	Road reopen
23:45	Stroud Green Road	Barrier removed
00:00	Stroud Green Road	Re-opens

No access to Station Place before 21:30.

Other timings subject to change.

2.0 KEY EGRESS LOCATIONS

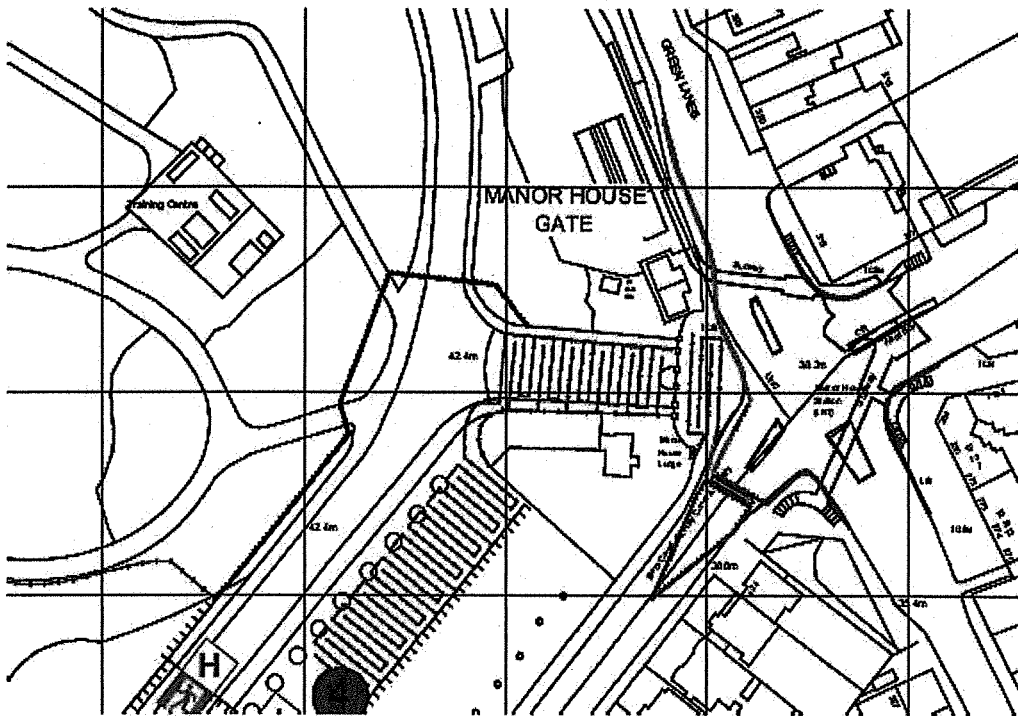
HOTEL / INDIA GATE

- Until approx. 21.00 anyone wishing to leave the event will egress via a dedicated lane at the arena entrance.
- At approx. 21.00 the arena entrance will be closed and a line of covered heras fencing will be placed in front of it to prevent the public trying to egress via this route.
- At approx. 21.00, India 3 will be opened to encourage the start of the egressing audience to utilize the moat
- India Gates 2 and 3 to be opened when needed due to monitored egress
- At approx. 21.00 Hotel Gate to be opened for Manor House / BGC / Taxi customers only

- The heras fence line from India Gate Outer or 'Tims Gap' will be removed after the road closure comes into effect so customers can immediately exit onto Seven Sisters Road (SSR)
- This fence line will be reinstated after the bulk of the egress has passed when it is deemed safe to do so
- The remaining crowd will use the moat and dog leg only which will ensure SSR is opened within the granted closure times

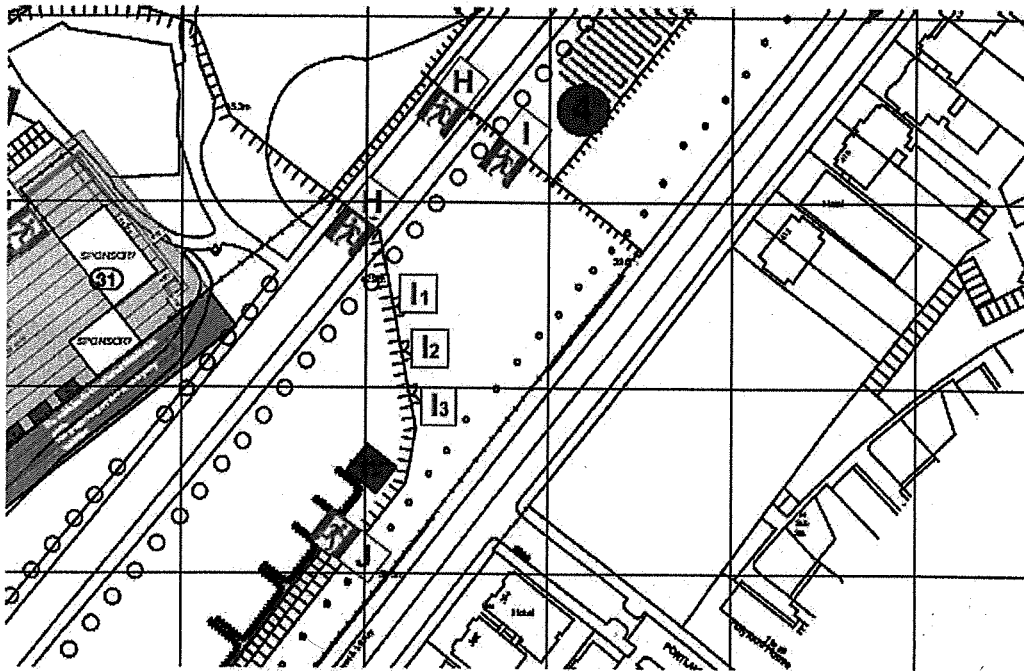
MANOR HOUSE STATION

- A Zone Manager will be assigned to Manor House Station along with a deputy who will be in place by 21:00hrs to ensure all staff are fully briefed, locations of security/stewards are checked and agreed, deployment of barrier and road closure either completed or standing by and to identify Met Police contact for the location.
- One Zone Manager will deal with the queue inside the park and the other will deal with those coming from Seven Sisters Road
- Disney lanes inside the park will be built as per the plan with the appropriate width
- The ability to queue people on Seven Sisters Road is required and this has been built into the plan. This area of the queuing system will be well managed by Security and the designated Zone Manager.
- Stuart Security and Specialized Security will be enlisted to support this egress operation.
- The Disney queue internal to the park will be built and in position from Thursday evening and act as an overflow for the primary queuing system.



INDIA GATE

- A Zone Manager will be assigned to India Gate along with a deputy who will be in place by 21:00hrs to ensure all staff are fully briefed, locations of security/stewards are checked and agreed, deployment of barrier and road closure either completed or standing by and to identify Met Police contact for the location.
- The gates are named India 1, 2 and 3 to provide clarity on the ground as a learning from 2017.
- During the day, Hotel Gate and India 3 Gate will be staffed as Emergency Exit Gates and protected accordingly. LED signage above each gate will be switched on all day from the sign at the fork prior to Kilo Gate onwards.
- A fire tower will be built so the PA operator can have eyes on the ground. This will also be used for loud hailer messaging.



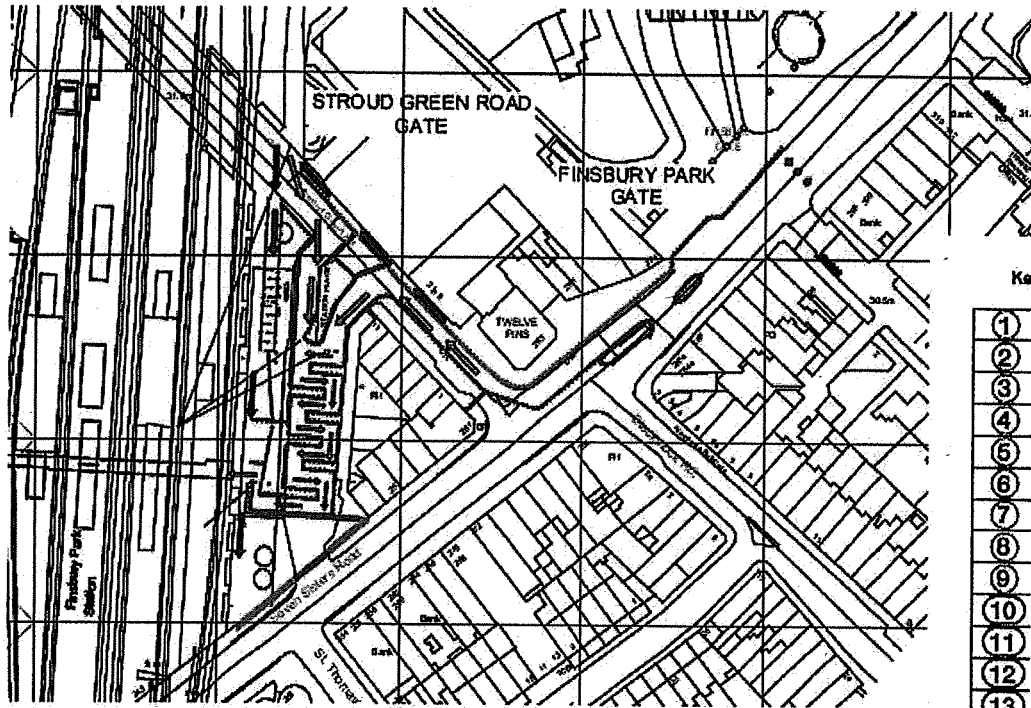
SEVEN SISTERS ROAD / BLUE MOAT

- The breakout gates along the Blue Moat will remain fenced during the day with the exception of Kilo Gate (Ambulance Gate). Once the heras fence line at Tims Gap has been removed, the crew will remove the breakout points down the moat. At the start of egress, only Hotel Gate and India 3 Gate will be open, so people either walk to the Disney Lanes at Manor House or down the Blue Moat towards Finsbury Park. People who do not need public transport must have the opportunity to leave the Park in the area of Manor House or via the breakout points at Kilo Gate / Finsbury Park Gate.
- Once the crowd flow reaches a point where India 3 and/or the Blue Moat are at capacity, India 1 & 2 will be opened allowing people to flow on to Seven Sisters Road. The road closure will be in place and the road deemed as vehicle free before this happens.
- TfL have granted an additional 15 minute extension on the Seven Sisters Road closure which allows for a maximum time of 1hour 30 minutes. This additional 15 minutes should be used as contingency only.
- Once the crowd flow has reduced, the fence line at Tims Gap will be put back in place to start restricting people from using the road
- Site crew will be on standby.
- This will keep the tail end of the egress contained internally and ensure the road is reopened in time.

FINSBURY PARK STATION

- A Zone Manager will be assigned to Finsbury Park Station along with a deputy who will be in place by 20:30hrs to ensure all staff are fully briefed, locations of security/stewards are checked and agreed, deployment of barrier and road closure either completed or standing by and to identify Met Police contact for the location.
- The queuing at this location will be managed by AP Security and will follow a similar format to 2017.

- Stronger exit routes from Finsbury Park Station will be established to facilitate the use by local residents exiting the station.



MISC

- All those involved in the key egress will change to channel 7 (tap button on radio). This will be a limited number of people. Traffic will remain on their own channel.
- PA messages will be scripted and the script will be enforced and managed via the egress Zone Managers.
- Re-brief of artist liaison re their artist vehicles. NO vehicles will leave site after 20:30hrs.

3.0 FLOW RATE CALCULATIONS

Show down @ 2230hrs Friday 6th July
 Show down @ 2230hrs Saturday 7th July
 Show down @ 2200hrs Sunday 8th July

2017

Capacity = 37,500
 No shows = 8%
 Early leavers = 12%
 Total on site at show down = 30,000

Predictions

55% through Finsbury Park
 20% through Manor House

Actual

55% through Finsbury Park – 16,595

25% through Manor House – 6,675

Clearance times based on available flow rates

FP @ 200ppm = 82mins Clearance time = 23:22

MH @ 142ppm = 47mins Clearance time = 22:47

2018

Capacity = 45,000

No shows = 8%

Early leavers = 12%

Total on site at show down = 36,000

Predictions

55% through Finsbury Park – 19,800

25% through Manor House – 9,000

Clearance times based on current flow rates

On 2017 flow rates

FP @ 200ppm = 99mins Clearance time = 00:09

MH @ 142ppm = 63mins Clearance time = 23:33

On 2018 flow rates

FP @ 255ppm = 78mins Clearance time = 23:48

MH @ 142ppm = 63mins Clearance time = 23:33

6.0 CONTINGENCY PROCEDURES

Large events can at worst cause significant traffic disruption on both the local and wider road networks. It is therefore important that they are carefully planned to minimise traffic congestion, risks to safety and planned to ensure that access for local residents, emergency services, businesses and buildings is not compromised. For Wireless specifically, the risk surrounding the egress plan must be assessed

6.1 Risks assessed

1. Assessment – quantify the hazards and potential targets and manage the risk
2. Prevention – measures that seek to prevent emergencies occurring
3. Preparedness – plans that enable an organisation to respond to known hazards as well as unforeseen events
4. Response – the initial response to an incident
5. Recovery – the return to normality.

The areas of risk have been identified, and our key commitments for the event traffic are, to

- ensure safe and convenient site access
- have an appropriate and clear signage plan on and off site
- minimise offsite traffic and transport disruption
- enable infrastructure to be safely built and removed from the highway
- create safe pedestrian access and vehicle separation at all times
- enable traffic to freely move outside the closure zone
- reopen roads and return to normal on time and when safe to do so
- stick to an agreed timetable
- have the appropriate number of suitable trained staff
- work on parking restriction zones with local boroughs
- clarity of responsibility and roles of all parties
- clear lines of communication
- clear understanding of targets

For the Seven Sisters Road closure we have also done the following -

- Consulted with the SAG re the closure
- Consulted with local passenger transport operators
- Replicate the plans we made in 2017 for tow away vehicles to remove broken down or obstructive vehicles from within the closure footprint
- Discussed arrangements with Hackney to protect and ensure that businesses and residents have unhindered access to their properties.
- Deployed 87 additional security guards to the Hackney Side streets all day and during egress to help protect the residents.



8.0 RISK ASSESSMENT

The below risk assessment is a work in progress and we are working to mitigate all amber risks shown below.

ACTIVITY	Finsbury Park Egress – Option A RISK ASSESSMENT (This RIA does not counter terrorism risks)										
DESCRIPTION OF ACTIVITY											
Wireless Festival is produced and operated by Festival Republic. The event will take place on 7 th , 8 th , 9 th July 2017. The event will have a capacity of 37,500/40,000 customers. Due to works at Finsbury Park Station, egress plans have been reviewed from 2016. The new plan sees the relocation of the arena exit as well as a newly designed, robust queuing system at Finsbury Park Station.											
WHO COULD BE AFFECTED											
Employees	X	Contractors	X	Visiting Company	X	Public	X	Young people	X	Pregnant Women	X
Description of Hazardous Events & Possible Consequences (Prior to implementation of Control Measures)											
						Likelihood	Severity	Risk Factor		Risk Pre Controls	
1.	Crushing caused by overcrowding					2	3	6			
2.	Incident at Station such as a power cut / person on tracks resulting in a full closure					2	3	6			
3.	Crushing against fixed structures such as barriers or objects					2	2	4		MEDIUM	
4.	Collapse of a structure, such as a fence or barrier that falls into crowd					2	3	6		MEDIUM	
5.	Failure of equipment such as turnstiles					2	3	6		MEDIUM	
6.	Blocking of egress paths					2	3	6		MEDIUM	
7.	Moving vehicles sharing the same route as pedestrians					2	2	4		MEDIUM	
8.	Surging swaying or rushing					2	3	6		MEDIUM	
9.	Customer falls in queue					2	3	6		MEDIUM	
10.	Queue jumpers					2	2	4		MEDIUM	
11.	Aggressive behaviour					2	2	4		MEDIUM	
12.	Dangerous behaviour such as climbing on equipment or throwing objects					2	2	4		MEDIUM	
13.	Slipping or tripping due to inadequately lit areas or poorly maintained floors and the build up of rubbish					2	2	4		MEDIUM	
14.	Objects that obstruct movement and cause congestion during busy periods					2	2	4		MEDIUM	
15.	Cross flows as people cut through the crowd to get to other areas such as toilets					2	2	4		MEDIUM	
Mandatory Control Measures											
1.	Route designed with suitable capacity to manage flows										
2.	No cross flows designed into system										
3.	Extensive pre planning of event egress through SAG, FR staff and independent safety experts										
4.	Suitable infrastructure provided throughout route, to include double height rhino barrier, double line of pad and met barrier										
5.	Competent and experienced crowd management staff employed										
6.	Designated crowd holding points set within route										
7.	Egress monitored by security supervisors, CCTV and ECR										
8.	Robust communications system in place with VMS, LED signs, loud hatters and PA system										
9.	Route designed with multiple escape / breakout points										
10.	Controlled and staffed egress from event site via internal road										
11.	Main egress routes closed to traffic, TTRC's in place										
12.	Competent traffic management contractor employed										
13.	Extensive communications with agencies										
14.	Extensive communication with TR and station management										
15.	Pre agreed communications plan in case of closure										
16.	Access routes to all areas of queuing system for security and medics										
17.	Medical response teams based at transport hub										
18.	Toilet facilities in place at key locations										
19.	Road closure in place										
Description of Hazardous Events & Possible Consequences (After implementation of Control Measures)											
						Likelihood	Severity	Risk Factor		Risk Post Controls	
1.	Crushing caused by overcrowding					1	3	3		MEDIUM	
2.	Incident at Station such as a power cut / person on tracks resulting in a full closure					1	3	3		MEDIUM	
3.	Crushing against fixed structures such as barriers or objects					1	2	2		MEDIUM	
4.	Collapse of a structure, such as a fence or barrier that falls into crowd					1	3	3		MEDIUM	
5.	Failure of equipment such as turnstiles					1	3	3		MEDIUM	
6.	Blocking of egress paths					1	3	3		MEDIUM	
7.	Moving vehicles sharing the same route as pedestrians					1	2	2		MEDIUM	
8.	Surging swaying or rushing					1	3	3		MEDIUM	
9.	Customer falls in queue					1	2	2		MEDIUM	
10.	Queue jumpers					1	2	2		MEDIUM	
11.	Aggressive behaviour					1	2	2		MEDIUM	
12.	Dangerous behaviour such as climbing on equipment or throwing objects					1	2	2		MEDIUM	
13.	Slipping or tripping due to inadequately lit areas or poorly maintained floors and the build up of rubbish					1	2	2		MEDIUM	
14.	Objects that obstruct movement and cause congestion during busy periods					1	2	2		MEDIUM	
15.	Cross flows as people cut through the crowd to get to other areas such as toilets					1	2	2		MEDIUM	
Further Action Required											
1.	Medium risks will continue to be reassessed and will be priority managed on site.										
2.	Review on a regular basis until show days and then review daily thereon.										
3.	Re-assess the activity if an accident, near miss or change in operation takes place.										
Assessed By	Nicky Hodgson & Claire Armstrong			Position	Festival Republic		Signed		Date		
Head of Health and Safety				Print Name				Date			
Chief Operating Officer				Print Name				Date			
Likelihood	1 = Unlikely	2 = May Occur	3 = Will Occur	Severity	1 = Minor	2 = Moderate	3 = Major				

MULTIPLY LIKELIHOOD BY SEVERITY TO OBTAIN RISK FACTOR

Examples of Minor Injuries: Bruises, Cuts, Abrasions, Strains.

Examples of Moderate Injuries: Breaks, Fractures, 3 day injury, injuries resulting in attendance at hospital. Examples of Major Injuries: Fatality, Fatalities, Permanent Disability.

Risk 1-3 = Low

Risk 1-4 = Medium (Reduce if possible)

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WIRELESS ANNUAL SECURITY FIGURES COMPARISON / ON AND OFF-SITE

2016			2017			2018		
WIRELESS - FRIDAY			WIRELESS - SATURDAY			WIRELESS - SUNDAY		
	On Site	Off-Site		On Site	Off-Site		On Site	Off-Site
Company								
Showsec	147	24	Showsec	181	24	Showsec	181	24
SES	154		SES	154		SES	154	
SAE	170		SAE	219		SAE	211	
Triangle	27		Triangle	27		Triangle	27	
Dogs	6		Dogs	6		Dogs	6	
SEP	20		SEP	20		SEP	20	
EMS	49		EMS	50		EMS	51	
TOTAL	573	24	TOTAL	657	24	TOTAL	650	24

Licence Cap 45000 1 per 78.5 ppl
Actual 15,379 1 per 28.8 ppl

Licence Cap 45000 1 per 68.4 ppl
Actual 43,613 1 per 66.3 ppl

Licence Cap 45000 1 per 69.2 ppl
Actual 35,755 1 per 55 ppl

Summary - Total Numbers Only								
	Friday		Saturday		Sunday			
	On-Site	Off-Site	On-Site	Off-Site	On-Site	Off-Site		
2016	573	24	657	24	650	24		
2017	781	14	779	14	782	14		
2018	928	93	943	93	943	93		

2017			2018					
WIRELESS - FRIDAY			WIRELESS - SATURDAY			WIRELESS - SUNDAY		
	On Site	Off-Site		On Site	Off-Site		On Site	Off-Site
Company								
Showsec	172		Showsec	172		Showsec	172	
SES	194		SES	194		SES	194	
Specialized	224		Specialized	224		Specialized	224	
Triangle	37		Triangle	37		Triangle	37	
Inquest	11		Inquest	11		Inquest	11	
Guardforce	59		Guardforce	57		Guardforce	60	
EMS	58		EMS	58		EMS	58	
Carefirst	7		Carefirst	7		Carefirst	7	
Iridium	4		Iridium	4		Iridium	4	
SEP	15		SEP	15		SEP	15	
Centre Circle		14	Centre Circle		14	Centre Circle		14
TOTAL	781	14	TOTAL	779	14	TOTAL	782	14

Licence Cap 37500 1 per 48.1 ppl
Actual 35,841 1 per 45.8 ppl

Licence Cap 37500 1 per 48.1 ppl
Actual 37,219 1 per 47.7 ppl

Licence Cap
Actual

2018		
WIRELESS - FRIDAY		
	On Site	Off-Site
Company		
AP	206	
SES	282	
Specialized	266	
Triangle	31	
Inquest	16	
EMS	57	
Gainsborough	27	
Iridium	4	
Carefirst	7	
SEP	20	
Pathway	12	
TOTAL	928	93

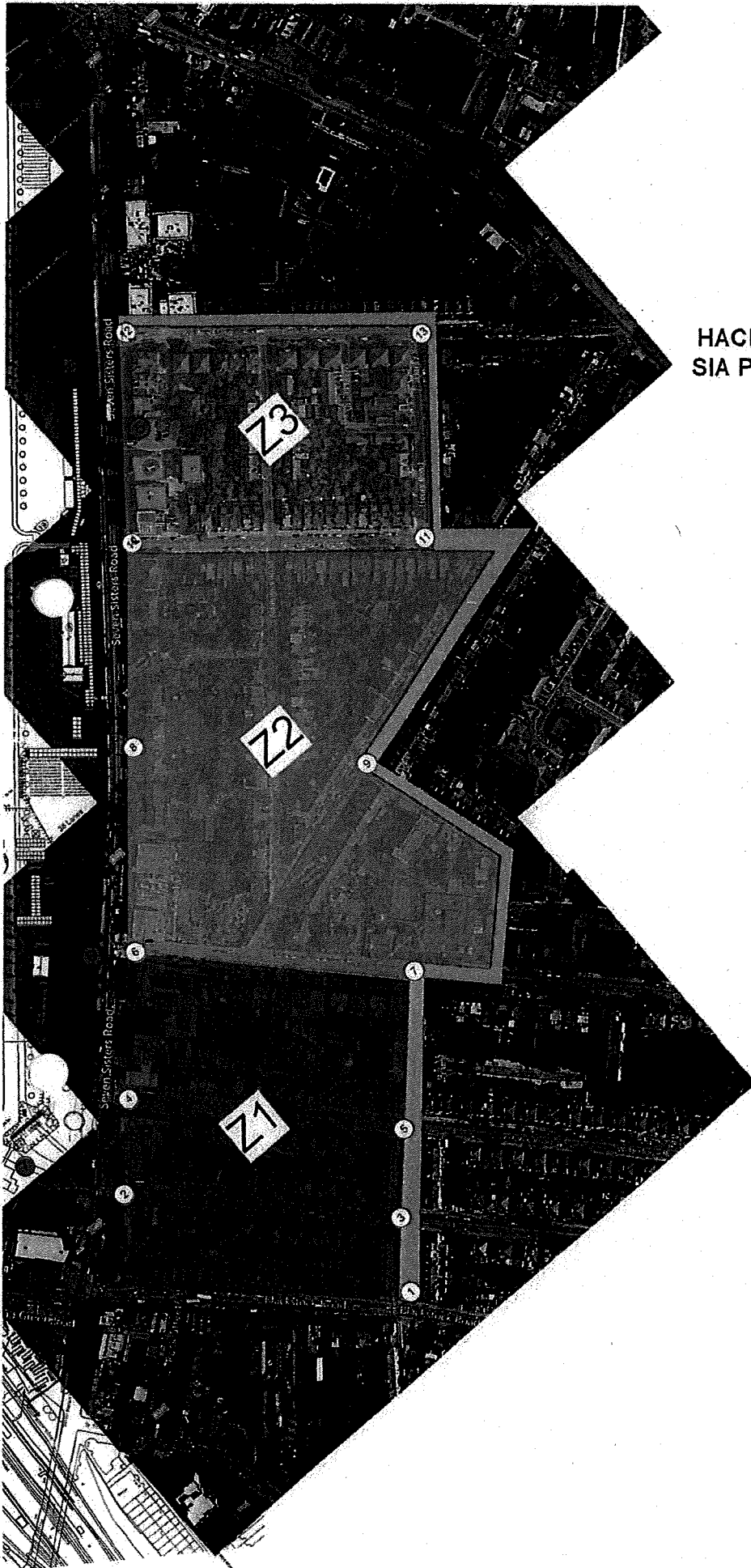
Licence Cap 45,000 1 per 48.4 ppl
Actual 43,342 1 per 44.5 ppl

Licence Cap 45,000 1 per 47.7 ppl
Actual 41,659 1 per 44.1 ppl

Licence Cap 45,000 1 per 47.7 ppl
Actual 42,514 1 per 44.1 ppl

Brought in additional perimeter support for Sat and Sun
Upiped numbers to include Islington Roads (Fran Rd, St Thomas, Ambler)

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HACKNEY SECURITY DEPLOYMENTS – SIA POSITIONS

ZONE 3

Position 10 = 6 static SIA
 Position 11 = 2 static SIA
 Position 12 = 6 static SIA
 Position 13 = 2 static SIA
 Z3 Mobile Team = 6 x SIA

ZONE 2

Position 6 = 6 static SIA
 Position 7 = 2 static SIA
 Position 8 = 4 static SIA
 Position 9 = 2 static SIA
 Z2 Mobile Team = 6 x SIA

ZONE 1

Position 1 = 2 static SIA
 Position 2 = 6 static SIA
 Position 3 = 2 static SIA
 Position 4 = 6 static SIA
 Position 5 = 2 static SIA
 Z1 Mobile Team = 6 x SIA

PATROL

Patrol Response Team = 6 x SIA
 Patrol Covert Teams = 3 teams of 2 x SIA

ADDITIONAL

Supervisors = 4
 Petrol Station = 2
 Blackstock Road = 2
 Manager = 1

6 additional guards were added to Islington for Wireless.
 2 x Prah Road
 2 x Ambler Road
 2 x St Thomas's Road