

APPENDIX 8.2

NOISE SURVEY DETAILS

Instrumentation and Fieldwork Details

Noise Survey July – August 2021

The noise measurements were undertaken at the locations detailed in section 3.0 and as indicated on Figure 1.1 attached.

The monitoring was carried out over approximately one week under suitable weather conditions.

Instrumentation:

Manufacturer	Description	Type	Calibration Due date	Serial No.
Norsonic	Integrating Sound Level Meter	116	January 2022	21589
Norsonic	Real Time Sound Analyser	118	July 2022	31992
Norsonic	Real Time Sound Analyser	140	Feb 2022	1405418
Bruel & Kjaer	Real Time Sound Analyser	2250	June 2022	2590499
Bruel & Kjaer	Real Time Sound Analyser	2250	June 2022	2590403
Bruel & Kjaer	Real Time Sound Analyser	2250	June 2022	2630261
Bruel & Kjaer	Real Time Sound Analyser	2250	January 2022	2506557
Cirrus	Real Time Sound Analyser	171A	June 2022	G061253
Cirrus	Real Time Sound Analyser	1710	April 2022	G066350
Cirrus	Real Time Sound Analyser	171B	April 2022	G056142
Cirrus	Electronic Calibrator	CR: 513A	April 2022	031523

The noise meters used during the survey were precision grade type 1 meters to IEC 651 standard and accuracy.

Calibration Setting: 94dB

Meter Setting: Fast Response

Fieldwork Details:

Date of test: Tuesday 27th July to Tuesday 3rd August 2021.

Time Period: 15-minute sequential measurements

Calibration: Before and after: 94dB

Background Noise Survey Methodology

Meteorological Conditions

Weather conditions were recorded during the baseline survey are detailed in Appendix 2.

The climatic conditions were for the majority of the time suitable for monitoring environmental noise levels in accordance with advice given in BS4142:2014+A1:2019.

Instrumentation and Fieldwork Details

Noise Survey April 2022

The noise measurements were undertaken at the locations 10 and 11 as indicated on Figure 1.1.

The monitoring was carried out over approximately 5 days under suitable weather conditions.

Instrumentation:

<i>Manufacturer</i>	<i>Description</i>	<i>Type</i>	<i>Calibration Due date</i>	<i>Serial No.</i>
Cirrus	Real Time Sound Analyser	171A	June 2022	G061253
Cirrus	Real Time Sound Analyser	1710	May 2022	G066350
Cirrus	Electronic Calibrator	CR: 513A	May 2022	031523

The noise meters used during the survey are precision grade type 1 meters to IEC 651 standard and accuracy.

Calibration Setting: 94dB

Meter Setting: Fast Response

Fieldwork Details:

Date of tests: Friday 1st April to Tuesday 5th April 2022

Time Period: Approximately 96 hours

Calibration: Before and after: 94dB

Meteorological Conditions

Weather conditions were recorded during the baseline survey are detailed below:

The climatic conditions were suitable for monitoring environmental noise levels in accordance with advice given in BS 7445:2003 'Description and measurement of environmental noise'.

Friday April 1st

Wind speeds are recorded at 10m height above ground level and therefore significantly higher than at the monitoring positions. Sample readings with hand held anemometer at monitoring positions indicate around 5-6m/s higher than shown below.

Today at					
06:00	07:00	08:00	09:00	10:00	11:00
Chance of precipitation					
<5%	<5%	<5%	<5%	<5%	10%
Temperature °C					
2°	2°	2°	3°	5°	6°
Feels like temperature (°C)					
-1°	-1°	-1°	0°	2°	3°
Wind direction and speed mph					
↙ NNW 6	↙ NNW 6	↘ N 7	↘ N 7	↘ N 8	↘ N 8
Wind gust (mph)					
15	14	14	13	15	15

Today at					
10:00	11:00	12:00	13:00	14:00	15:00
Chance of precipitation					
<5%	<5%	10%	10%	10%	10%
Temperature °C					
3°	5°	6°	6°	7°	7°
Feels like temperature (°C)					
-1°	1°	2°	3°	4°	3°
Wind direction and speed mph					
↘ N 10	↘ N 10	↘ N 11	↘ N 11	↘ N 11	↘ N 13
Wind gust (mph)					
17	18	19	19	19	22

Today at					
14:00	15:00	16:00	17:00	18:00	19:00
Chance of precipitation					
0%	10%	10%	<5%	<5%	<5%
Temperature °C					
7°	7°	7°	7°	6°	5°
Feels like temperature (°C)					
4°	3°	3°	3°	2°	2°
Wind direction and speed mph					
↘ N 11	↘ N 13	↘ NNW 13	↘ NNW 13	↘ NNW 12	↘ NW 11
Wind gust (mph)					
19	22	22	23	22	21

Today at					
14:00	15:00	16:00	17:00	18:00	19:00
Chance of precipitation					
0%	10%	10%	<5%	<5%	<5%
Temperature °C					
7°	7°	7°	7°	6°	5°
Feels like temperature (°C)					
4°	3°	3°	3°	2°	2°
Wind direction and speed mph					
↘ N 11	↘ N 13	↘ NNW 13	↘ NNW 13	↘ NNW 12	↘ NW 11
Wind gust (mph)					
19	22	22	23	22	21

Saturday 2nd April 2022

Saturday at						Today at					
00:00	01:00	02:00	03:00	04:00	05:00	09:00	10:00	11:00	12:00	13:00	14:00
Chance of precipitation						Chance of precipitation					
10%	40%	50%	50%	50%	50%	<5%	10%	10%	10%	10%	10%
Temperature °C						Temperature °C					
3°	3°	2°	2°	1°	1°	1°	2°	3°	4°	4°	5°
Feels like temperature (°C)						Feels like temperature (°C)					
1°	0°	0°	0°	0°	0°	0°	0°	1°	2°	3°	4°
Wind direction and speed mph						Wind direction and speed mph					
↖ NW	↗ WNW	↙ SW	↙ SW	↗ W	↗ W	↗ SSE	↘ SE	↘ SE	↘ SE	↘ ESE	↘ ESE
5	5	4	4	3	3	4	5	4	5	4	3
Wind gust (mph)											
8	7	7	6	5	5						

Today at						Today at				Sunday
14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00
Chance of precipitation						Chance of precipitation				<5%
10%	10%	10%	<5%	<5%	<5%	10%	10%	<5%	<5%	<5%
Temperature °C						Temperature °C				3°
5°	6°	6°	6°	6°	6°	6°	5°	4°	4°	3°
Feels like temperature (°C)						Feels like temperature (°C)				2°
4°	5°	5°	5°	5°	5°	4°	3°	3°	2°	2°
Wind direction and speed mph						Wind direction and speed mph				
↘ ESE	↖ E	↗ NE	↗ S	↘ N	↖ NW	↘ N	↘ N	↘ NNW	↖ NW	↖ NW
3	3	4	4	4	3	4	4	4	3	3

Sunday 3rd April 2022

Sunday at						Today at					
01:00	02:00	03:00	04:00	05:00	06:00	10:00	11:00	12:00	13:00	14:00	15:00
Chance of precipitation						Chance of precipitation					
<5%	<5%	<5%	<5%	<5%	<5%	<5%	<5%	10%	10%	10%	10%
Temperature °C						Temperature °C					
3°	2°	2°	2°	2°	2°	5°	7°	7°	8°	9°	8°
Feels like temperature (°C)						Feels like temperature (°C)					
1°	1°	0°	0°	0°	-1°	3°	4°	4°	6°	6°	6°
Wind direction and speed mph						Wind direction and speed mph					
↗ WNW 3	↗ WNW 4	↗ W 4	↗ W 4	↗ W 5	↗ W 6	↗ WNW 7	↖ NW 10	↗ WNW 10	↖ NW 8	↗ WNW 10	↗ WNW 10

Today at						Today at				Monda
14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00
Chance of precipitation						Chance of precipitation				
10%	10%	<5%	10%	<5%	10%	10%	10%	10%	10%	20%
Temperature °C						Temperature °C				
9°	8°	8°	8°	8°	7°	7°	6°	6°	7°	7°
Feels like temperature (°C)						Feels like temperature (°C)				
6°	6°	6°	6°	6°	5°	4°	3°	3°	3°	3°
Wind direction and speed mph						Wind direction and speed mph				
↗ WNW 10	↗ WNW 10	↗ WNW 10	↗ WNW 9	↗ WNW 9	↗ W 8	↗ WSW 8	↗ WSW 10	↗ WSW 10	↗ WSW 13	↗ WSW 15

Monday 4th April 2022

Monday at					
00:00	01:00	02:00	03:00	04:00	05:00
Chance of precipitation					
10%	50%	60%	80%	60%	20%
Temperature °C					
7°	8°	8°	8°	8°	9°
Feels like temperature (°C)					
4°	4°	4°	4°	5°	5°
Wind direction and speed mph					
↙ SW 10	↘ WSW 13	↘ WSW 14	➤ W 14	➤ W 14	➤ W 14

Monday at					
05:00	06:00	07:00	08:00	09:00	10:00
Chance of precipitation					
20%	20%	80%	60%	20%	20%
Temperature °C					
9°	9°	9°	10°	10°	11°
Feels like temperature (°C)					
5°	6°	6°	7°	7°	7°
Wind direction and speed mph					
➤ W 14	➤ W 14	➤ W 14	➤ WNW 15	➤ WNW 15	➤ WNW 15

Monday at					
10:00	11:00	12:00	13:00	14:00	15:00
Chance of precipitation					
20%	10%	20%	20%	20%	20%
Temperature °C					
11°	11°	12°	12°	12°	12°
Feels like temperature (°C)					
7°	8°	8°	9°	9°	9°
Wind direction and speed mph					
➤ WNW 14	➤ WNW 14	➤ WNW 10	➤ WNW 9	➤ WNW 9	➤ WNW 8

Today at					
16:00	17:00	18:00	19:00	20:00	21:00
Chance of precipitation					
30%	70%	10%	90%	90%	80%
Temperature °C					
12°	12°	11°	11°	11°	11°
Feels like temperature (°C)					
9°	9°	8°	8°	8°	8°
Wind direction and speed mph					
➤ WNW 10	➤ WNW 10	➤ WNW 13	➤ WNW 13	➤ WNW 15	➤ WNW 15

Tuesday 5th April 2022

Today at		Tuesday at					Tuesday at						
22:00	23:00	00:00	01:00	02:00	03:00	04:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00
													
Chance of precipitation		Chance of precipitation					Chance of precipitation						
50%	50%	50%	60%	60%	60%	50%	10%	10%	10%	10%	10%	<5%	<5%
Temperature °C		Temperature °C					Temperature °C						
10°	10°	10°	10°	10°	10°	10°	9°	9°	10°	10°	11°	11°	11°
Feels like temperature (°C)		Feels like temperature (°C)					Feels like temperature (°C)						
8°	8°	7°	7°	7°	7°	7°	6°	6°	6°	7°	8°	8°	8°
Wind direction and speed mph		Wind direction and speed mph					Wind direction and speed mph						
↖ WNW	↖ WNW	↖ WNW	↖ WNW	↖ WNW	↖ WNW	↖ WNW	↖ WNW	➤ W	➤ W	➤ W	➤ W	➤ W	➤ W
15	15	16	14	14	14	14	15	14	15	15	14	17	17