

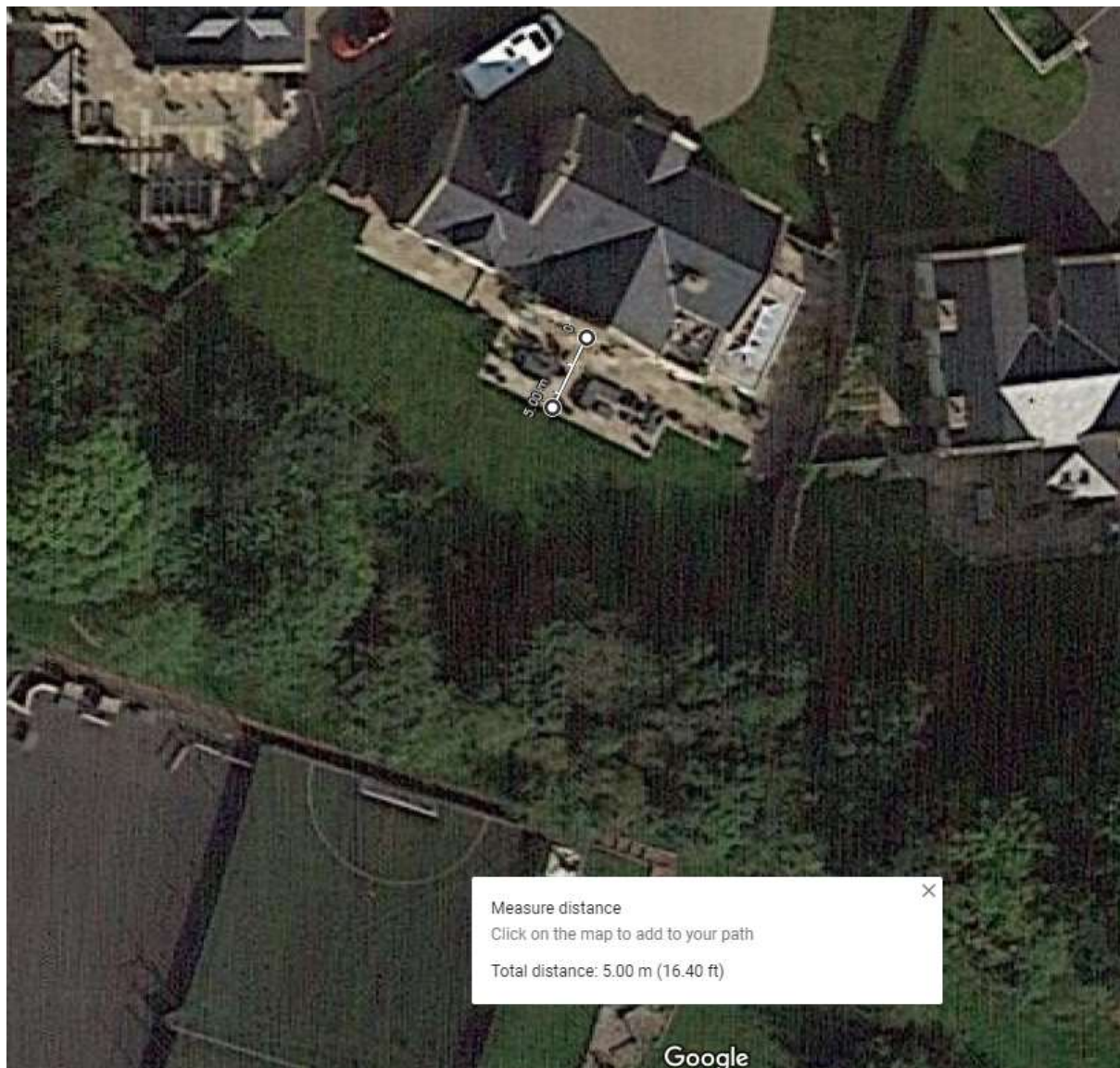
Noise from Use of Artificial Grass Pitch (AGP) at Oakhill School, Whalley

Monitoring Dates: 3rd April 2023 & 7th June 2023

1.0 Sound Level Meter Setup and Monitoring Position

- 1.1 The Rion-52 was set up as a sound level meter, fitted with a wind shield (wind shield correction added to device) and calibrated to 94dB.
- 1.2 The microphone of the sound level meter was positioned in the rear garden of 4 Bennett Close, Whalley, by the tabled area where residents are likely to sit. The microphone was 1.5m from the ground and 5m from the rear façade. This property is the nearest noise sensitive receptor (NSR).

Monitoring Position

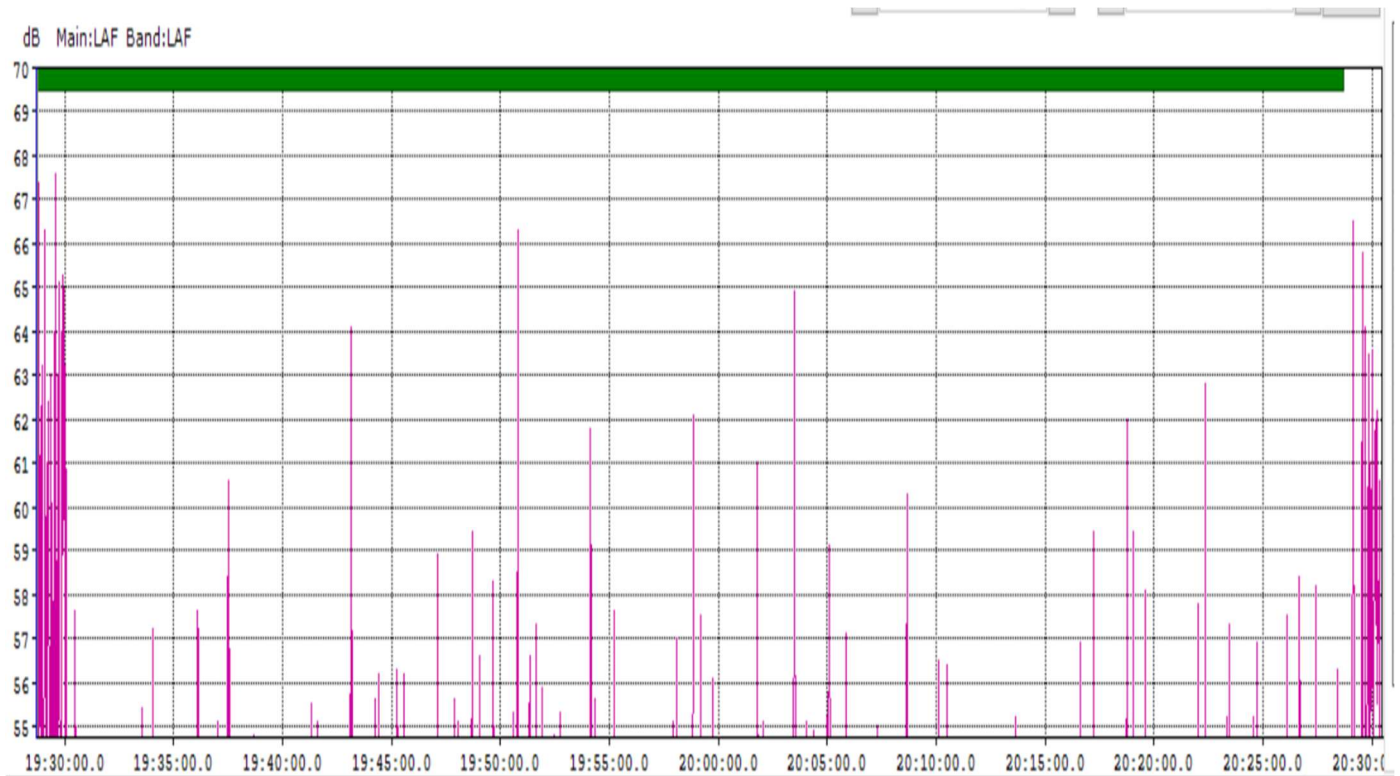


2.0 Readings

- 2.1 A one-hour reading was taken on the 3rd April 2023 between 19:30 – 20:30 to measure noise from the use of the AGP pitch. Over the one-hour period, the AGP was in use by approximately 12 men playing 5 a side football.
- 2.2 The temperature during the measurement period was 10C, wind speed 0m/s, cloud cover 0 oktas.
- 2.3 A further one- hour reading was taken on the 7th June 2023 between 19:00 – 20:00 hrs to measure noise from the use of the AGP pitch. Again, over the one-hour period, the AGP was in use by approximately 12 men playing 5 a side football.
- 2.4 The temperature during the measurement was 20C, Windspeed 0.1m/s, Cloud cover 0 oktas.

3.0 Results

03.04.2023 – Chart Illustrating LAmax Levels from use of the AGP over a 1-hour Period.



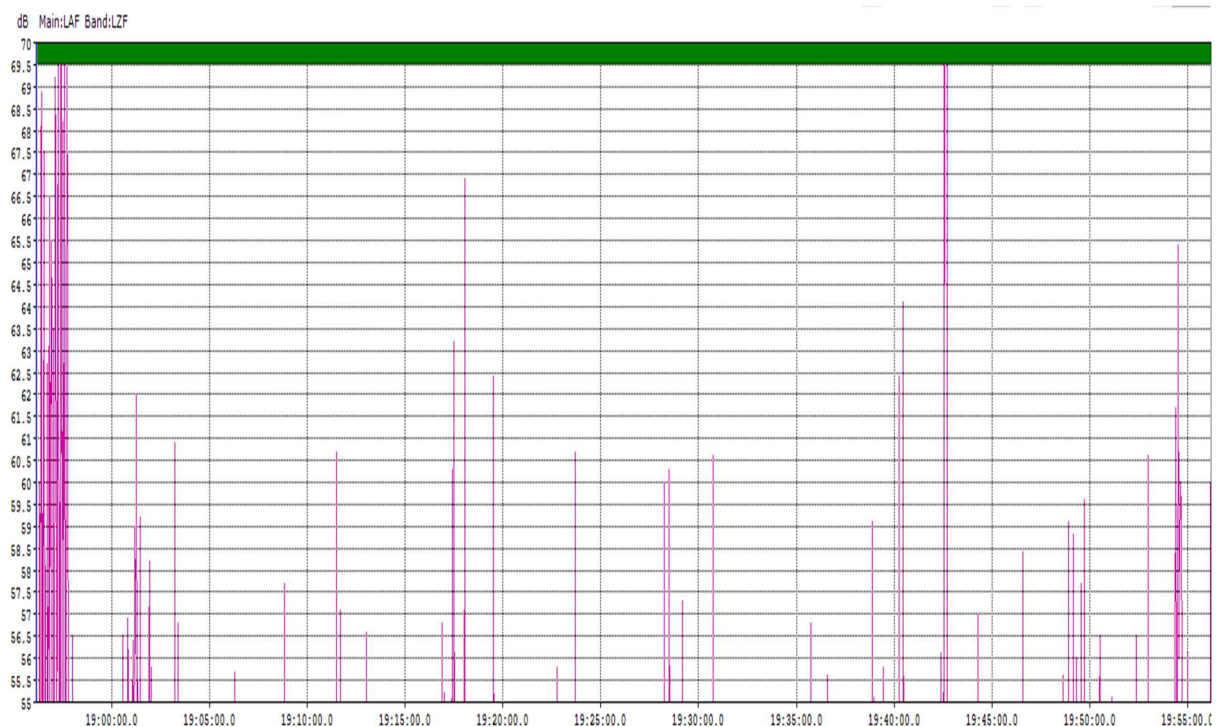
03.04.2023 – Table of LAmax Levels Greater Than 55dBA from use of the AGP over a 1-hour Period.

Time (hour, minute, second)	Noise Level dBA	Comments
19.30.27	57.6	Ball impact on metal fence
19.30.28	55	Ball impact
19.33.33	55.4	Ball impact on metal fence
19.34.01	57.2	Ball impact
19.36.10	57	Ball impact fence
19.37.28	58.4	Shouting
19.43.11	64.1	Ball impact on metal fence
19.44.15	55.6	Shouting
19.44.23	56.3	Shouting
19.45.16	56.3	Shouting
19.45.36	56.2	Shouting
19.47.07	58.9	Ball impact on metal fence
19.47.32	55.6	Shouting
19.30.00	57.6	Ball impact
19.33.34	55.4	Ball impact
19.34.02	57.2	Ball impact
19.36.06	57.6	Ball impact on metal fence
19.37.28	58.4	Shouting
19.43.11	64.1	Ball impact on metal fence
19.44.15	55.6	Shouting
19.44.23	56.2	Shouting
19.45.56	56.3	Shouting
19.46.52	56.2	Shouting
19.47.03	58.9	Impact on fence
19.47.52	55.6	Shouting
19.48.04	55.1	Shouting
19.48.41	59.4	Ball impact
19.49.02	56.6	Shouting
19.49.34	58.3	Ball impact
19.50.28	55.9	Ball impact
19.50.46	66.3	Shouting
19.51.21	56.6	Shouting
19.51.40	57.3	Shouting
19.52.44	55.5	Ball impact
19.54.00	61.8	shouting
19.54.10	56.5	Shouting
19.54.39	55.6	Clapping/shouting
19.54.22	55.6	Ball impact
19.55.12	57.6	Shouting
19.58.03	57	Ball impact
19.58.52	62.1	Ball impact/metal fence
19.59.12	57.5	Shouting
19.59.44	56.1	Shouting
20.01.46	61	Ball impact
20.03.30	64.9	Shouting

20.04.01	55.1	Ball impact
20.04.58	55.2	Ball impact
20.05.07	59.1	Shouting
20.05.51	57.1	Shouting
20.08.36	57.3	Laughter
20.08.40	60.3	Shouting
20.10.07	56.5	Shouting
20.10.30	56.4	Shouting
20.16.34	56.9	Shouting
20.17.12	59.4	Ball impact on fence
20.19.01	59.4	Shouting
20.19.35	58.1	Shouting
20.22.02	57.8	Shouting
20.22.22	62.8	Shouting
20.23.22	55.2	Shouting
20.23.25	57.3	Shouting
20.24.42	56.9	Ball impact on fence
20.26.05	57.5	Shouting
20.26.07	57.5	Shouting
20.26.39	58.4	Shouting

07.06.23

07.06.2023 – Chart Illustrating L_{Amax} Levels from use of the AGP over a 1-hour Period



07.06.2023 – Table of LAmax Levels Greater than 55dBA from use of the AGP over a 1-hour Period.

Time (hour, minute, second)	Noise Level dBA	Comments
19.01.54	56.2	Ball impacts fence
19.03.13	60.9	Ball impacts metal fence
19.03.23	56.8	Ball impacts metal fence
19.06.18	55.7	Male shouting
19.08.52	57.7	Ball hits fence
19.11.29	60.7	Ball hits fence
19.13.02	56.6	Ball hits fence
19.16.50	56.8	Ball hits fence
19.17.06	55.2	Male shouting
19.17.22	60.3	Ball impacts metal fence
19.17.31	63.2	Ball impacts metal fence
19.18.02	66.9	Male shouting
19.18.04	55	Male shouting
19.19.29	62.4	Ball impacts metal fence
19.22.47	55.8	Male shouting
19.23.42	60.7	Ball impacts wall
19.28.14	60	Ball impacts fence
19.28.32	60.2	Male shouting
19.29.10	57.3	Ball impacts metal fence
19.30.43	60.6	Male shouting
19.35.43	56.8	Ball hits fence
19.36.35	55.6	Ball impacts metal fence
19.40.28	64.1	Ball impacts metal fence
19.42.24	56.1	Ball impacts metal fence
19.46.35	58.4	Ball impacts person
19.49.34	57.7	Male shouting
19.50.32	56.5	Male shouting
19.52.22	55.6	Male shouting
19.53.01	60.6	Male shouting

4.0 Findings

- 4.1 The background noise level at the complainant's property is dominated by road traffic noise due to the close proximity to the main road (A671). This road traffic noise masks a significant amount noise generated by users of the AGP.
- 4.2 However, the impulsive noises from shouting and the noise generated by the ball impacting the fencing/wooden boarding is clear and is what is reported by the complainants as causing the nuisance.
- 4.3 Subjectively, because the noise from balls striking the fence/boarding and the noise from shouting is sudden, loud, and unexpected, it has a tendency to startle the listener. If this type of noise was persistent and frequent, it would substantially interfere with use and enjoyment of the rear garden and constitute a statutory nuisance.

