

Noise, Vibration, Air & Water Quality Report / October 2025

Executive Summary

Noise, vibration and air quality data is generated by onsite internal monitors, administered by Acoustic1, located in the North and South of the site. An additional vibration monitor offsite is located at the Whitchurch Hospital Chapel.

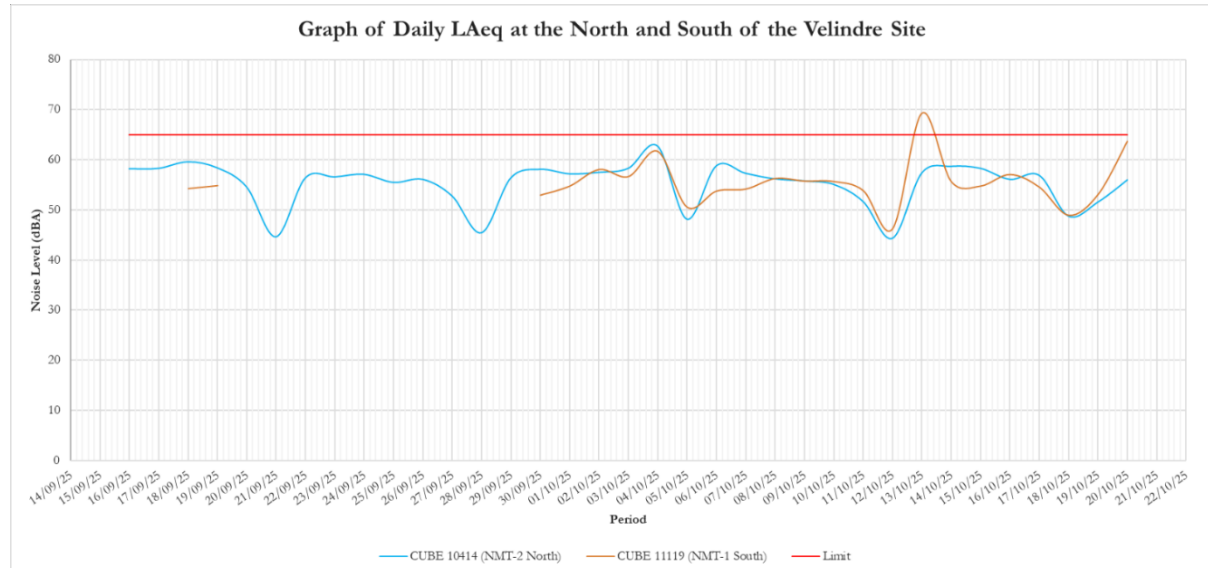
Water quality data of the attenuation pond is measured using a handheld pH monitoring device on a weekly inspection basis.

Data is compiled monthly. Over the October measurement period, 1 exceedance to the soft noise limit was recorded. No exceedances to air quality or vibration limits were recorded. Water quality remained within acceptable ranges.

	Layout	Period	Data Type	Threshold Values	Work Hours
Noise	One graph of both CUBE Units Two graphs, on site and off site	Daily averages	Leq	65dB	8am-6pm
Vibration	(church)	Hourly averages	mm/s	3mm/s	8am-6pm
Air Quality	One graph of both KUNAK Units	Hourly averages	PM10	190µg/m ³	8am-6pm

Location	CUBE	ORION	KUNAK
South Monitoring Point	CUBE 11119 (NMT-2)	ORION (VMT-2)	K-B3 SOUTH
North Monitoring Point	CUBE 10695 (NMT-1)	ORION (VMT-1)	K-B3 NORTH
Church	N/A	ORION (VMT-3)	N/A

Noise

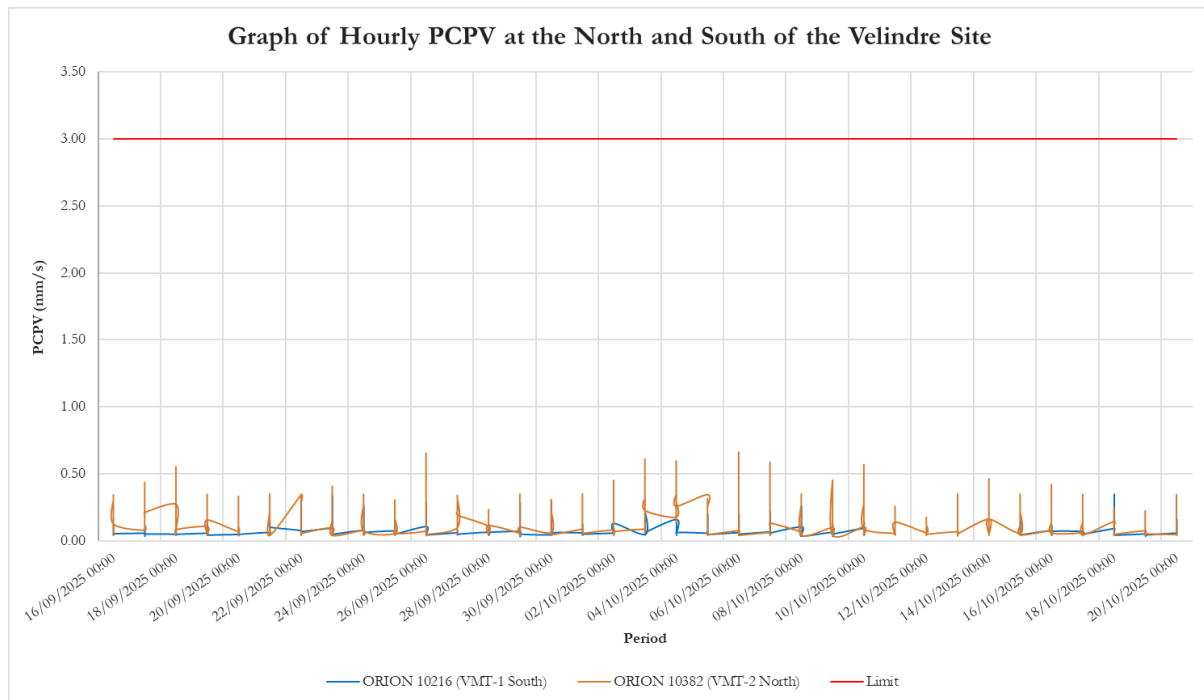


It was recommended in the Environmental Strategy (ES – produced by Walters) to limit noise on site to 70dB(A). Sacyr has set a soft limit of 65dB(A); anything surpassing this limit requires investigation, though mitigation measures need to be in place for anything over the hard limit of 70dB(A).

An exceedance to the soft limit of 65dB was recorded on 13/10/25 (69.3dB) on the South Monitor. After investigation, this coincides with vegetation clearance works offsite, not associated with Sacyr, close to our eastern boundary.

Vibration

No limit on vibration has yet been set between Sacyr and Cardiff Council. However, a provisional limit has been set as vibrations measuring 1.00mm/s or more, lasting for longer than an hour.



No vibration data recorded exceeded the 1.00mm/s limit at both the North and South monitoring stations on the Velindre site in the period 16/09/2025 – 20/10/2025.

No vibration data was recorded at the Church monitoring station outside the Velindre site for the period covering 16/09/2025 – 20/10/2025, due to ongoing connection issues.

Air Quality

Internal air quality monitors measure 'Particulate Matter' PM1, PM2.5 and PM10. These refer to the size (microns) of the particulates, with PM10 being the largest. Limits on PM10 must not exceed 40µg/m³ on an annual average and no more than 35 instances per year of 50µg/m³ daily average.



There were no exceedances on PM10 recorded.

The mean average for hourly recordings of PM10 (16/09/2025 – 20/10/2025) are as follows:

South monitoring station PM10 AVG1h (ug/m³) – 3.20µg/m³

North monitoring station PM10 AVG1h (ug/m³) – 3.24µg/m³

Water Quality

The nVCC site features drainage systems to manage water onsite which is directed to an attenuation pond. The pH of the water in the attenuation is monitored on a weekly basis. A pH range is set by Dwr Cymru Welsh Water with a lower limit of pH6 and upper limit of pH11.

Date	Time	Water Level (cm)	Level Status	Equipment Used	Weather Conditions	Action Taken
9/26/2025	09:00am	0	N/A	N/A	Sunny	None
10/3/2025	09:00am	30	(pH7.42)	pH Monitor	Rain	None
10/9/2025	10:00am	0	N/A	pH Monitor	Overcast	None
10/16/2025	09:30am	0	N/A	pH Monitor	Overcast	None
10/24/2025	09:00am	35	(pH7.50)	pH Monitor	Partial cloud	None

No lower or upper exceedances recorded in weekly measurements October 2025.