

Bangkok Patana School Air Quality Policy

PM 2.5 (24hr)	General Air Quality Index (24hr)	Health Effects	Precautionary Actions defined by US EPA*	Bangkok Patana Response	Communication
0 to 12.0	Good 0 to 50	Air quality is considered as satisfactory. Little to no risk.	None.	All Students: All outdoor activities unaffected. Staff: Duties are unaffected	None
12.1 to 35.4	Moderate 51 to 100	Air quality is acceptable. However, for some pollutants, a very small number of unusually sensitive individuals may experience moderate health concerns.	People who are unusually sensitive to pollutants should consider reducing prolonged or heavy exertion.	All Students: All outdoor activities unaffected. Staff: Teachers monitor students with unusual sensitivity to pollutants as identified through medical records.	None
35.5 to 55.4	Caution for Sensitive Groups 101 to 150	Members of sensitive groups may experience health effects. The general public is not likely to be affected.	People with respiratory or heart disease, the elderly and children should limit prolonged exertion.	All Students: Outdoor activities continue as planned. There may be some modifications to avoid prolonged exertion for those with unusual sensitivity to pollutants as identified through medical records. Staff: Monitor students with unusual sensitivity as identified through medical records.	None
55.5 to 150.4	Caution for All 151 to 200	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.	Primary Students: Nursery to Year 2 students stay indoors except for movement between buildings. Year 3 to Year 6 students have outdoor exposure limited to 30 minutes. Secondary Students: Outdoor activities may continue but with modifications to avoid prolonged exertion. Activities may be reduced to lower intensity and/or shorter time periods. Staff: Those working outside should avoid heavy physical work for prolonged periods of time.	Policy and Safety Reminder indicated on Parents' Gateway, Staff Dashboard and Secondary Student Dashboard as an orange icon
150.5 to 250.4	Unhealthy 201 to 300	Health alert is triggered: everyone may experience more serious health effects.	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion.	All Students: All outdoor activities cancelled or moved indoors. Outdoor field trip decisions will be based on the local air quality at destination. Staff: Those engaged in physical work outside should wear protective face masks.	Policy and Safety Reminder indicated on Parents' Gateway, Staff Dashboard and Secondary Student Dashboard as a red icon
250.5 to 500.4	Hazardous 301 to 500	Health warnings of emergency conditions. The entire population is more likely to be affected.	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors.	All members of the community (except those responsible for security) to remain indoors unless moving between buildings. Further safety measures will be taken based on the situation. Outdoor field trip decisions will be based on the local air quality at destination.	SMS message to parents Policy and Safety Reminder on Parents' Gateway, Staff Dashboard and Secondary Student Dashboard as a purple icon

* Source: Environmental Protection Agency (USA)

EPA defines 'prolonged exertion' as activity extending over a period of a few hours and causes breathing to increase more than normal.

Our Monitoring Procedures

- As a school licensed by the Ministry of Education, we use the data provided from two official Thai government sites, both of which use data directly from the Air Quality and Noise Management Bureau.
- We refer to 2 sets of air pollution data: the general Air Quality Index (AQI) and also readings for PM 2.5. Measurement of PM 2.5 refer to tiny atmospheric particles that have a diameter of less than 2.5 micrometers.
- The table on page 1 shows ranges of air pollution for both types of reading together with our responses.
- We use the 24 hour average for both the PM 2.5 and AQI measurements as per the USA EPA guideline.

Type of pollution	Source	Website
General Air Quality Index (AQI)	Air Quality and Noise Management Bureau (Thai government)	http://air4thai.pcd.go.th/webV2/station.php?station=05t
PM 2.5 <ul style="list-style-type: none"> • Atmospheric particulate matter (PM) that has a diameter of less than 2.5 micrometers 		http://aqmthai.com/public_report.php (Choose Station 05t, choose the time period, choose PM2.5 under Parameter and choose Table or Graph)

- The Health and Safety Office (or a delegated member of staff) at school checks the information daily from both of the above two sites.
- Of the two data sets (AQI and PM 2.5), we will act on the reading which indicates the greatest level of risk as defined on the table on page 1.
- The Health and Safety Office communicates to the Senior Leadership Team who in turn will inform colleagues and students as appropriate, as well as our Marketing and Communications team for the management of relevant communications with our parent community.
- We are subject to regular environmental inspections at school for both outdoor and indoor areas, including those which focus on air pollution readings. These inspections have so far confirmed that our campus air pollution readings are in fact lower than those of the nearest official air quality monitoring station (Bangna) .
- Typically, checks are made during the school day. If unhealthy levels are indicated, we will enact early morning monitoring.

Document Review and Development

Last Reviewed By:	Senior Leadership Team (SLT)
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