Environmental Monitoring

1. Water Quality Monitoring

EHS water quality monitoring program translates the University's commitment to the United Nations Sustainable Development Goals, particularly Goal 6 (Clean Water and Sanitation) and Goal 3 (Good Health and Well-being), into practical campus action. Weekly sampling of potable water from campus supply points, including those serving restroom facilities, assesses key indicators such as pH, conductivity, and total dissolved solids (TDS). These routine checks provide an initial indication of changes in water quality and help identify concerns requiring further investigation. In parallel, chlorine monitoring across all campus swimming pools supports the management of recreational water quality. Together, these efforts strengthen the University's proactive approach to protecting campus health, maintaining water quality, and advancing sustainable campus operations.

2. Indoor Air Quality Monitoring

EHS ongoing indoor air quality monitoring initiative across university academic and service buildings puts our commitment to healthier, more sustainable campus environments into practice, supporting the United Nations Sustainable Development Goals—particularly SDG 3 (Good Health and Well-being) and SDG 11 (Sustainable Cities and Communities). By monitoring gaseous pollutants and respirable particulates, the initiative helps identify potential air quality concerns and inform measures to reduce exposure in the indoor spaces where our campus community studies, works, and accesses essential services. This proactive approach supports the health, comfort, and productivity of building occupants while reinforcing the University's commitment to a sustainable, resilient, and inclusive campus.

Environmental Monitoring Equipment

The Environmental Health and Safety (EHS) Department is equipped with advanced instruments capable of monitoring key environmental indicators, including air, water, and noise quality. These assessments play a vital role in maintaining a safe, sustainable, and environmentally responsible campus environment, aligning with KFUPM's commitment to regulatory compliance and environmental stewardship.

Equipment	Function
MX6 iBrid MultiGas Detector 	To measure Oxygen, Carbon Dioxide/IR, Ammonia, and Lower Explosive Limit.
Ventis MX4 Multigas Dector 	To measure Hydrogen sulfide, Carbon monoxide, Oxygen, Methane.
DUSTTRAK™ II Aerosol Monitor 8532 	To measure aerosol concentrations corresponding to PM1, PM2.5, PM10, or respirable size fraction.
Ion Science MVI Mercury Vapor Indicator 	To detect level of mercury vapor in air (detection ranges: 0.1 to 200 µg/m3 or 1.0 to 1999 µg/m3).

Equipment	Function
Pro Series3 HS71512 Radon Gas Detector 	To detect level of radon gas in air.
Multi parameter Water Quality Meter YSI Professional Plus 	To measure water quality: pH, Conductivity, TDS, Dissolved Oxygen, Oxygen Concentration, Temperature, and Salinity.
Spartna SPR-502 Free Chlorine and Total Chlorine Meter 	To measure both Free and Total Chlorine up to 3.50ppm with 0.01 ppm resolution.