

**2.0.7**

**SITING REQUIREMENTS FOR TOXICS MONITORING EQUIPMENT  
(XONTECH 910A, 912, AND 920)**

1. Locate the sampler in an area that has unobstructed airflow, especially in the direction of any recognized sources of the materials being sampled. Turbulence and eddies from obstructions will cause nonrepresentative results. The distance between the obstruction and the sampler should not be closer than two times the height of the obstruction.
2. Avoid locations that will be unduly influenced by nearby sources or activities.
3. Avoid locations where reactive surfaces may cause chemical changes in the air sampled.
4. Be aware of micrometeorological influences due to nearby hills, bodies of water, valley drainage flow patterns, etc.,
5. Place the intake probe at a representative height. The guidance given for criteria pollutants is for probe height to be 3 to 15 meters above ground level, as near breathing height as possible, but not where a building is an obstruction or the equipment is easily vandalized.
6. The probe should extend at least 2 meters from a supporting structure; if located on a building, it must be mounted on the windward side.

Monitoring site selection criteria should be the same in most regards, whether the site will be used for a fixed station or for the non-fixed (mobile) site. Uniformity among the sites should be achieved to the greatest degree possible. Descriptions should be prepared for all sampling sites. The description, at a minimum, should include the type of ground surface; the direction, distance, and approximate height to any obstruction to airflow; and the direction and distance to any local pollutant sources (actual or potential). Photographs of the site are valuable for analysts who will not have first-hand knowledge of the site.