



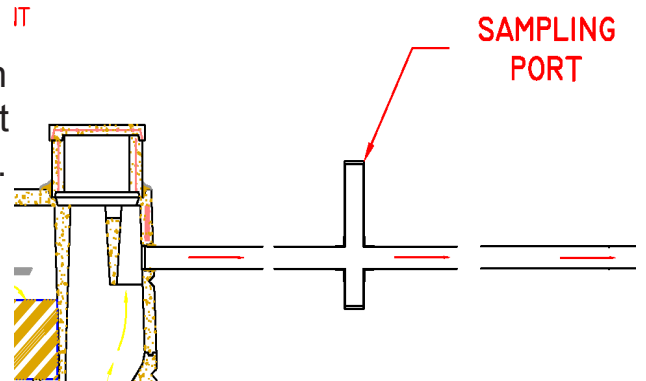
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# Sample Port Design

A typical sampling port consists of a standard four inch sanitary cross, a small four to six inch well pipe, and a long riser pipe to extend the sampling port above grade.

Construction is relatively basic, simply install the well pipe to one side of the cross and then glue the cross into the desired influent/effluent line with the well pipe vertical to the feed pipe. Then glue the riser pipe into the remaining upward opening of the cross and extend the access port to grade (see insert picture).



In order to collect a true sample from a sampling cross they should be cleaned before each sample is taken. For 24 hour composite sampling the cross well should be brushed out daily, then evacuate debris and contaminated water from the well and finally reinstall the composite sampler feed tube. It may be necessary to prime the composite sampler before leaving the site depending on the model you are working with. For a grab sample first brush and evacuate the sampling well. Then place a sampling bottle in the well to catch the flowing stream as it enters the sampling bottle in the well. Carefully remove the sample bottle, do not allow any debris from the sides of the sample well or riser pipe to touch or contaminate the sample.

After samples have been collected the sampling cross should be securely capped to prevent any infiltration/exfiltration of ground or waste water. Venting sampling ports is not recommended.