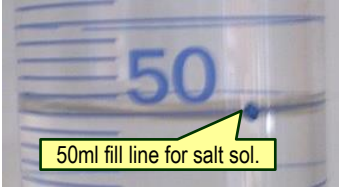
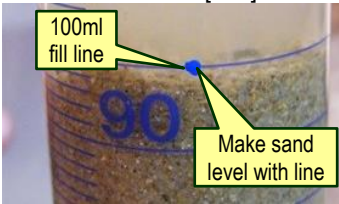
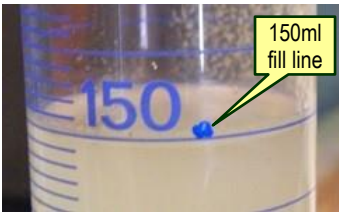
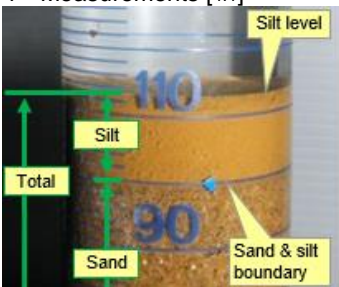




# Determine Silt Concentration Sand Sample

Code: PTx  
Ver: 1.00

<b>⚠ Hazards: Hazard Cause Control</b> 1 <b>Vibration Shaker Stand Clear</b> [3.3]	<b>💡 Critical Steps</b> 1 If not mixed as specified → Incorrect result [3.3] 2 If sand level not at 100 ml → Incorrect result [3.1.2] 3 If disturbed after settling → Start Over [4.1]
---	---

Key	Summary	Steps	Images & Data
⚠ See Hazard List 💡 See Notes for Critical Steps 📄 See Images & Data 📖 See Supporting Documents 🛠 See Tools Required 📎 See Materials Required 📝 Record data in log 🔄 Repeat From	<b>1 Make 1% Salt Solution</b>	1.1 If salt solution available 📎1 → 2.1 • approx. 150ml per sample 1.2 Get tools & materials ✖1-3 📎2 1.3 Tare clean jug on scales • confirm display = 0.0 1.4 Add 100 g salt 1.5 Add 1000 ml tap water 1.6 Stir until salt dissolved 1.7 Transfer solution to storage bottle	1 Initial Fill Level [3.1.1] 
	<b>2 Prepare for Sampling</b>	2.1 Get tools & materials ✖3-5 📎3, 1 2.2 Top up wash bottle with salt solution 2.3 Complete label & apply to cylinder <input type="checkbox"/> supplier/s <input type="checkbox"/> date <input type="checkbox"/> time	2 Sand Fill Level [3.1.2] 
	<b>3 Prepare &amp; Settle Sample</b>	3.1 Add to measuring cylinder: 3.1.1 salt solution to ~50 ml 📎1 3.1.2 📎2 sand to 100 ml mark 📎2 3.1.3 salt solution to 150ml 📎3 3.2 Insert stopper in cylinder 3.3 ⚠1 💡1 Vibrate sample for 30 secs ✖6 📎1 3.4 📎2.3 for each sample 3.5 Set sample(s) aside for 3hrs settling	3 Top Up Level [3.1.3] 
	<b>4 Calculate &amp; Record Silt %</b>	4.1 📎3 Measure without disturbing sample 📎4 <input type="checkbox"/> 'Total' (silt level) <input type="checkbox"/> 'Sand' (sand & silt boundary) 4.2 Calculate silt % 📎5 4.3 Record on form 📝 📎2 <input type="checkbox"/> sample details <input type="checkbox"/> silt % 4.4 Update QC database 📝 4.5 📎4.1 for each sample	4 Measurements [4.1] 
			5 Silt Concentration (%) [4.2] $\text{Silt \%} = \frac{(\text{total} - \text{sand})}{\text{sand}} \times 100$ $\text{Silt \%} = \frac{(112 - 100)}{100} \times 100$ $= 12\%$

<b>📄 Documents</b> 1 Operate Shaker [3.3] 2 QA-FM-ALLOP-05 [4.3]
<b>🛠 Tools Required</b> 1 Scales [1.2] 2 Storage bottle [1.2] 3 200 ml Measuring cylinder with stopper (1 per sample) [1.2, 2.1] 4 Sample Labels (1 per sample) [2.1] 5 Wash bottle & funnel [2.1] 6 Vibrating Shaker [3.3]

<b>📎 Materials Required</b> 1 1% Salt Solution (~150 ml per sample) [1.1, 2.1] 2 Salt [1.2] 3 Sand [2.1]
---