





PROCEDURES MANUAL

COLOR (apparent) ANALYSIS

VII. PROCEDURE DETAILS AND FLOW

No.	Process Flow	Description of Activity	Guidelines/Criteria/Policy	Responsibility Person	Retained Information
01	<pre> graph TD     START([START]) --&gt; Collect[Collect water sample]     Collect --&gt; Fill[Fill up a Nessler cylinder with sample and compare with standards]     Fill --&gt; Decision{Color exceeds 70 units?}     Decision -- YES --&gt; Dilute[Dilute the sample with distilled water]     Dilute --&gt; Fill     Decision -- NO --&gt; Report[/Report as "Apparent Color"/]     Report --&gt; END([END])                     </pre>	1.1 Collect water samples.	Water samples should be at room temperature.	Chemist	Chain of Custody Form
02		2.1 Fill up to 50 mL mark in a Nessler cylinder.	Color should be determined as early as possible after collection as biological activity and physical changes may affect the color.	Chemist	
		2.2 Observe the color and compare with standards			
03		3.1 Compare with standards by looking vertically downward through the cylinder towards a white surface.	If color exceeds 70 units, dilute the sample with distilled water until the color is in the range of the standards. Calculate CU by the following equation: $Color = \frac{AX50}{B}$ where: A= estimated color of diluted sample B= mL sample taken for dilution	Chemist	
04		4.1 Record reading and report as "Apparent Color".		Chemist	Test Result Form

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