

**PCSD ENVIRONMENTAL LABORATORY  
ATTACHMENT 1  
WATER AND WASTEWATER ANALYSIS**

**Table 1. Standard Methods of Analysis (DENR AO 63)**

<b>PARAMETER</b>	<b>PRICE</b>	<b>METHOD OF ANALYSIS</b>
BOD <sub>5</sub>	675	Azide Modification (Dilution Technique)
CHROMIUM (Hexavalent)	350	Diphenyl Carbazide Colorimetric Method
CHEMICAL OXYGEN DEMAND (COD)	675	Open Reflux, Closed Reflux/ Titration
COLOR	200	Visual Comparison Method (Platinum Cobalt Scale)
CYANIDE	675	Distillation/Specific Ion Electrode
DISSOLVED OXYGEN	150	Azide Modification (Winkler Method),/ Membrane Electrode (DO meter)
FECAL COLIFORMS	450	Multiple-Tube Fermentation Technique / Membrane Filter
OIL AND GREASE	675	Gravimetric Method (Petroleum Ether Extraction)
pH	120	Glass Electrode Method
TEMPERATURE	75	Use of Mercury-Filled Thermometer
TOTAL COLIFORMS	450	Multiple-Tube Fermentation Technique or Membrane Filter
TOTAL SUSPENDED SOLIDS	350	Gravimetric Method at 103 – 105°C
TOTAL DISSOLVED SOLIDS	350	Gravimetric Method at 180°C
SETTLABLE SOLIDS	100	Imhoff Cone

**Table 2. Other Methods of Analysis**

<b>PARAMETER</b>	<b>PRICE</b>	<b>METHOD OF ANALYSIS</b>
ALKALINITY, Phenolphthalein/Total	250	Titration
HARDNESS, TOTAL(Ca & Mg)	250	EDTA Titration
NITROGEN – NITRITE	250	Colorimetric
NITROGEN – NITRATES	250	Colorimetric
PHOSPHORUS – PHOSPHATES	250	Colorimetric
SALINITY	120	Hand Refractometer
TURBIDITY	120	Colorimetric

[See Related Resolution PCSD Resolution 07-348](#)