

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

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

PARAMETER	PRICE, pHp	METHOD OF ANALYSIS
BOD ₅	891	Azide Modification (Dilution Technique)
CHROMIUM (Hexavalent)	462	Diphenyl Carbazide Colorimetric Method
CHEMICAL OXYGEN DEMAND (COD)	891	Open Reflux, Closed Reflux/ Titration
COLOR	264	Visual Comparison Method (Platinum Cobalt Scale)
CYANIDE	891	Distillation/Specific Ion Electrode
DISSOLVED OXYGEN	200	Azide Modification (Winkler Method),/ Membrane Electrode (DO meter)
FECAL COLIFORMS	594	Multiple-Tube Fermentation Technique / Membrane Filter
OIL AND GREASE	891	Gravimetric Method (Petroleum Ether Extraction)
pH	200	Glass Electrode Method
TEMPERATURE	100	Use of Mercury-Filled Thermometer
TOTAL COLIFORM	594	Multiple-Tube Fermentation Technique or Membrane Filter
TOTAL SUSPENDED SOLIDS	462	Gravimetric Method at 103 – 105°C
TOTAL DISSOLVED SOLIDS	462	Gravimetric Method at 180°C
SETTLABLE SOLIDS	132	Imhoff Cone

Table 2. Other Methods of Analysis

PARAMETER	PRICE, pHp	METHOD OF ANALYSIS
ALKALINITY, Phenolphthalein/Total	330	Titration
HARDNESS, TOTAL(Ca & Mg)	330	EDTA Titration
NITROGEN – NITRITE	330	Colorimetric
NITROGEN – NITRATES	330	Colorimetric
PHOSPHORUS – PHOSPHATES	330	Colorimetric
SALINITY	154	Hand Refractometer
TURBIDITY	154	Colorimetric