

MONITORING PROTOCOL- SURFACE WATER
(RIVER, LAKES, PONDS CREEKS, DRAINS)

Parameters to be measured	Frequency	Location
<u>Field Observations</u> Weather, Approximate depth of main stream/depth of water table, Colour and intensity, Odor, Visible effluent discharge, Human activities around station Station detail.	Monthly/ Quarterly (Jan. April, July & Oct)	All location
<u>Core Parameters</u> Temperature, pH, Conductivity, DO, BOD, Nitrate -N, ammonia- N, Total coliform, Faecal Coliform.	Monthly/ Quarterly (Jan. April, July & Oct)	All location
<u>Bio Monitoring</u> Saprobity Index, Diversity Index, P/R ratio	Three times in year (Oct., Jan. April)	Selected location
<u>General Parameters</u> COD, TKN, Total Dissolved Solids, Total Fixed Solids, Total Suspended Solids, Turbidity, Hardness, Fluoride Boron, Chloride Sulphate, Total Alkalinity, P-Alkalinity, Phosphate, Sodium, Potassium, Calcium, Magnesium	Once a year (April)	All location
<u>Trace Metals</u> Arsenic, Nickel, Copper, Mercury, Chromium, Cadmium, Zinc, Lead, Iron	Once a year (April)	Selected location
<u>Pesticide</u> Alpha BHC, Beta BHC, Gamma BHC (Lindane), OP DDT, PP DDT, Alpha Endosulphan, Beta Endosulphan, Dieldrin, Carbaryl (Carbamate), 2.4D, Aldrin, Malathian, Methyl Parathian, Anilophos, Chloropyriphos	Once a year (April)	Selected location

**MONITORING PROTOCOL- GROUND WATER
(TUBE-WELLS, HAND PUMPS DUGWELL)**

Parameters/ Field observations	Frequency	Locations
<u>Field Observations</u> Weather, Approximate depth of main stream/depth of water table, Colour and intensity, Odor, Visible effluent discharge, Human activities around station, Station detail	Twice in a year - April & Oct	All location
<u>Core Parameters</u> Temperature, pH, Conductivity , BOD, Nitrate-N, Total coliform, Faecal Coliform.	Twice in a year - April & Oct	All location
<u>General Parameters</u> COD, TKN, Ammonia, Total Dissolved Solids, Total Fixed Solids, Total Suspended Solids, Turbidity, Total Hardness, Fluoride Boron, Chloride Sulphate, Total Alkalinity, P-Alkalinity, Phosphate, Sodium, Potassium, Calcium, Magnesium, SAR,% Na	Once a year- April	All location
<u>Trace Metals</u> Arsenic, Nickel, Copper, Mercury, Chromium Cadmium, Zinc, Lead, Iron,	Once a year- April	Selected location
<u>Pesticide</u> Alpha BHC, Beta BHC, Gama BHC (Lindane), OP DDT, PP DDT, Alpha Endosulphan, Beta Endosulphan, Dieldrin, Carbaryl (Carbamate), 2.4D, Aldrin, Malathian, Methyl Parathian, Anilophos, Chloropyriphos	Once a year- April	Selected location

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