SC DEPARTMENT of ENVIRONMENTAL SERVICES

Water Pollution (WP) Study Parameters

Trace Metals
Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium, Total
Chromium, VI
Cobalt
Copper
Iron
Lead
Manganese
Mercury
Mercury, Low-Level
Molybdenum
Nickel
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Vanadium
Zinc

Inorganic - Demands
Total Organic Carbon
Chem. Oxgen Demand
BOD
Carbonaceous BOD

Inorganic-Misc.
Acidity
Color
Cyanide, Total
Non-Filterable Residue
pH
Phenolics, Total
Oil & Grease
Residual Chlorine, Total (Low Level)
Surfactants - MBAS
Settleable Solids
Silica
Turbidity
Volatile Solids

Inorganic - Minerals
Alkalinity
Bromide
Calcium
Chloride
Fluoride
Magnesium
Potassium
Sodium
Specific Conductance
Sulfate
Sulfide
Total Hardness
Total Dissolved Solids
Total Solids

Inorganic - Nutrients
Ammonia as N
Nitrate as N
Nitrate-Nitrite as N
Nitrite as N
Orthophosphate as P
Total Kjeldahl Nitrogen
Total Phosphorus

Microbiology
Total Coliform - MF
Total Coliform - MPN - Multiple Tube
Total Coliform - MPN - Multiple Well
Fecal Coliform - MF
Fecal Coliform - MPN - Multiple Tube
Fecal Coliform - MPN - Multiple Well
E. coli - MF
E. coli - MPN - Multiple Tube
E. coli - MPN - Multiple Well
Enterococci - MF
Enterococci - MPN - Multiple Tube
Enterococci - MPN - Mulitple Well

Whole Effluent Toxicity
One PT sample per parameter and method (DMR-QA sample)

Herbicides
2,4-D
Dicamba
2,4,5-T
2,4,5-TP (silvex)

Semi-volatile Acids
4-Chloro-3-methylphenol
2-Chlorophenol
2,4-Dichlorophenol
2,6-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2-Methyl-4,6-dinitrophenol
2-Methylphenol (o-Cresol)
4-Methylphenol (p-Cresol)
2-Nitrophenol
4-Nitrophenol
Phenol
Pentachlorophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol

PCBs in Water:
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260

Pesticides
Aldrin
Alpha-BHC
Beta-BHC
Delta-BHC
Lindane
Chlordane (total)
Alpha Chlordane
Gamma Chlordane
4,4' DDD
4,4' DDE
4,4' DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Endrin Ketone
Heptachlor
Heptachlor Epoxide
Methoxychlor
Toxaphene

Semi-volatile Base/Neutrals
*Acenapthene
*Acenaphtylene
*Anthracene
*Benzo(a)anthracene
*Benzo(b)fluoranthene
*Benzo(k)fluoranthene
*Benzo(g,h,i)perylene
*Benzo(a)pyrene
Benzyl butyl phthalate
4-Bromophenyl-phenyl ether
bis(2-Chloroethoxy)methane
bis(2-Chloroethyl)ether
bis(2-Chloroisopropyl)ether
bis(2-Ethylhexyl)phthalate
4-Chlorophenyl-phenyl ether
2-Chloronapthalene
*Chrysene
*Dibenz(a,h)anthracene
Dibenzofuran
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Diethyl phthalate
Dimethyl phthalate
Di-n-butylphthalate
2,4-Dinitrotoluene
2,6-Dinitrotoluene
Di-n-octylphthalate
*Fluoranthene
*Fluorene
Hexachlorobenzene
Hexachloroutadiene
Hexachlorocyclopentadiene
Hexachloroethane
*Indeno(1,2,3,cd)pyrene
Isophorone
2-Methylnaphthalene
*Naphthalene
Nitrobenzene
N-Nitrosodimethylamine
N-Nitroso-di-n-propylamine
N-Nitrosodiphenylamine
*Phenanthrene
*Pyrene
1,2,4-Trichlorobenzene

Low-Level PAHs
Compounds marked by * above

Volatiles
Benzene
Chlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Ethylbenzene
Naphthalene
Toluene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Xylenes, total
Acetone
Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chloroethane
Chloroform
Chloromethane
Dibromochloromethane
1,2-Dibromo-2-chloropropane (DBCP)
1,2-Dibromoethane (EDB)
Dibromomethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
2-Hexanone
4-Methyl-2-pentanone
Methylene Chloride
Methyl tert butyl ether
Styrene
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
Tetrachloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,3-Trichloropropane
Vinyl Chloride

Low-Level Halocarbons
1,2-Dibromo-2-chloropropane (DBCP)
1,2-Dibromoethane (EDB)

Petroleum Hydrocarbons
Diesel Range Organics (DRO)

Volatile Petroleum Hydrocarbons
Gasoline Range Organics (GRO)

Revised 10/2026