

Problem statement

How might we design a monitoring system for river water that helps in maintaining water quality?

BRAINSTROM

SANTHOSH KUMAR J

Fertilizers and pesticides from farms.

Stormwater runoff may add oil, chemicals from surface

Aquatic life span reduces

Very high or very low pH makes the water toxic for things living in it

Proper disposal of garbage is required

Acid sulfate soil reduces pH

Flooding dumps waste into water

Amplified demand for water

TEENA KUMARI M

livestock operations wash nutrients

Industrial outlets contains thin metals, solvents and so on

Eutrophication creates dead zone

Aquatic life depend on suitable temperature

Pollutants from the drainage basins

Blackwater events depletes dissolved oxygen

Hardness depends on calcium deposits

Bathe affects alkalinity

SURENDER D

Nutrient pollution cause algal blooms

Municipal wastewater contaminate waterways

Solid debris cause trouble to fishes

Too much ammonia is toxic to aquatic life

Atmospheric inputs from fossil fuel burning and bush fires

Management of salinity

Fertilisers contains nitrogen and phosphorus that cause bloom

Excessive usage of insecticides and pesticides

MOHANRAJ D

Animal waste also adds in water

Used water from households

Activities carried out on the land

E. coli bacteria is a harmful microbe present in water

Lack of inadequate treatment of human wastes

Increase in temperature affect aquatic life

Poor sewage systems

Insufficient wastewater management



Proper disposal
of
garbage

Solid debris
causes
trouble
to fishes



Managem
ent of
salinity



Group Ideas



Blackwater
events
depletes
dissolved
oxygen

Acid
sulfate
soil
reduces
pH

Activities
carried
out on
land



Fertiliser
and
pesticides
from
farms

Nutrient
pollution
cause
algal
bloom

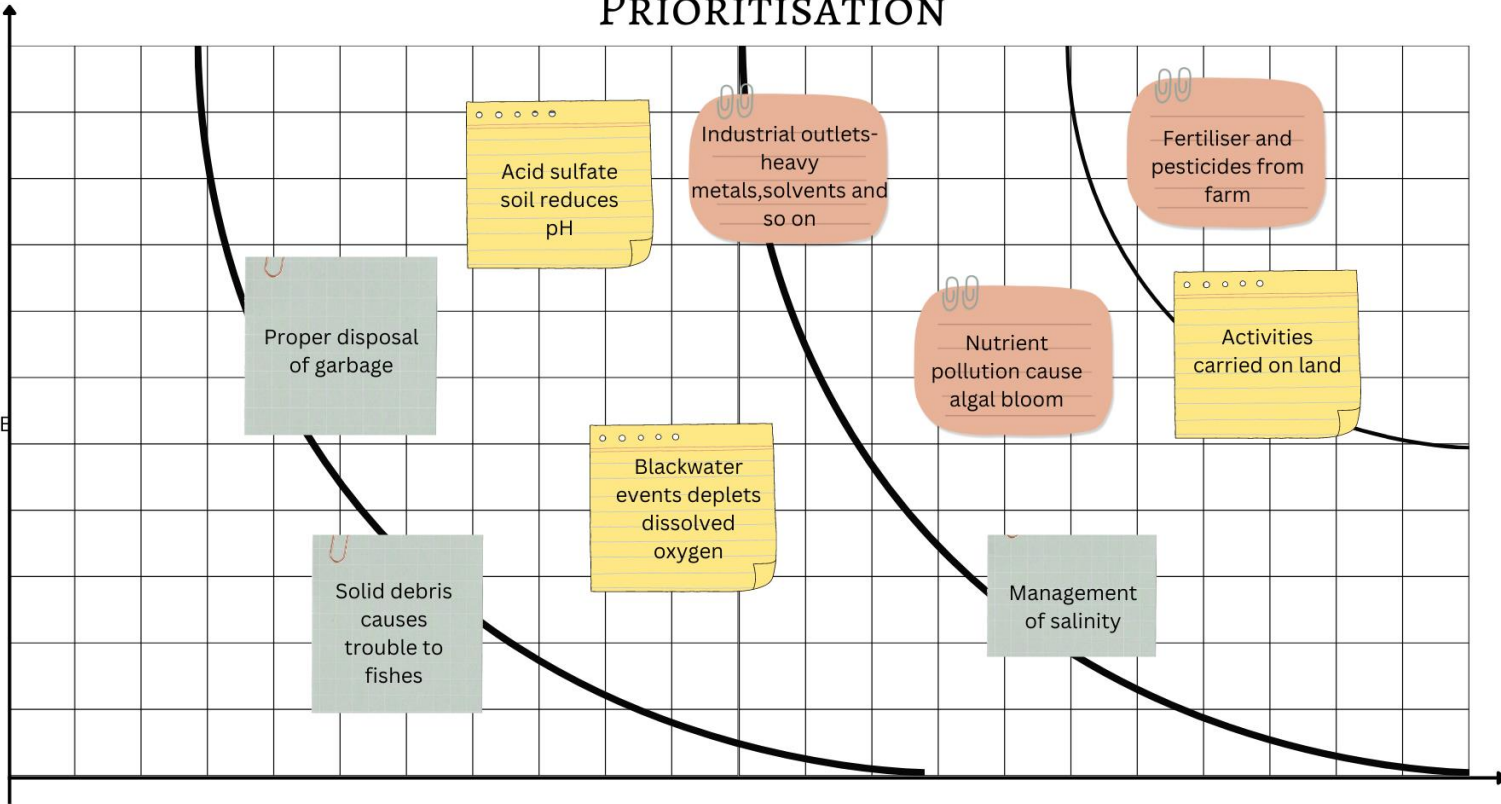
Industrial
outlets -
heavy
metals
solvents
and so on



PRIORITISATION



IMPORTANCE



✓ FEASIBILITY