

ARKAVATHI POLLUTION ANALYSIS

With government proposals to expand treatment and use of Arkavathi River water in Bangalore, it is important to identify, monitor, and stop the spread of harmful pollutants. The results below show trends in pollution at site 105, one of eight Arkavathi sites where Paani conducted sediment and water testing.

TESTING INFORMATION

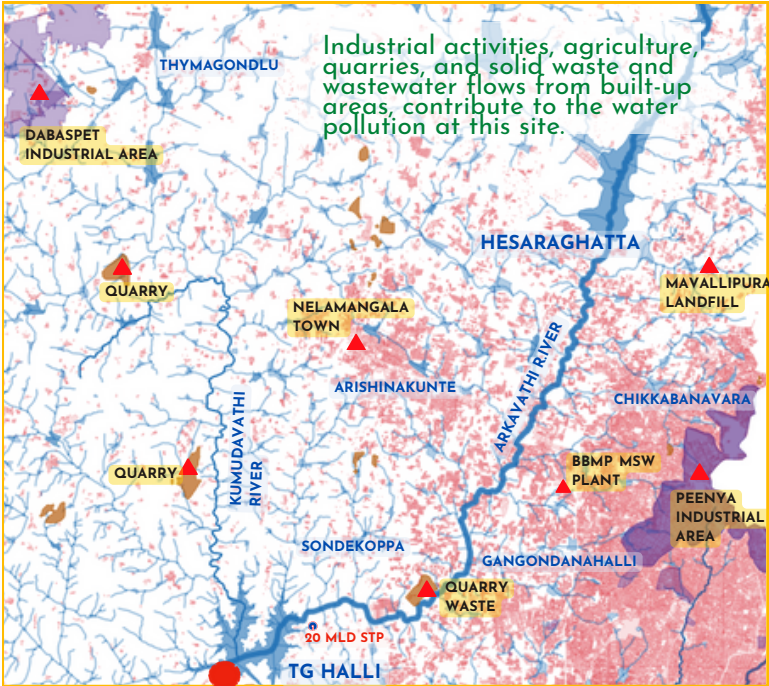
SITE 105



DOWNSTREAM OF
TG HALLI RESERVOIR,
ARKAVATHI



28
FEB
2024



POLLUTANTS OF CONCERN

Water and soil tested at this site did not meet international standards for pollution due to high amounts of chemicals including:

C16H10

Pyrene

PAH

causes cancer & kidney disease

12x above

Canada Water Quality Guidelines (Aquatic Life)

DEHP

Bis(2-ethylhexyl) phthalate

PAH

plasticizer, damages liver & reproductive system

71x above

US Recommended Water Quality Criteria (Human Health)

Hg

Mercury

Poisonous Metal

harms nervous, digestive, and immune systems

16x above

Canada Sediment Quality Guidelines (Aquatic Life)

C22H14

Dibenz[a,h]anthracene


PAH


causes skin & eye irritation


3077x above

US Recommended Water Quality Criteria (Human Health)

KEY

 Industry

 Agriculture

 Various sources

APPROPRIATE USE FOR WATER AT SITE

Water tested was suitable for Central Pollution Control Board Class D & E

CPCB Designated-Best-Use of Sample

X

A

X

B

X

C

D

E

X

N/A

Due to high levels of Biochemical Oxygen Demand* (3 day), water tested at site 105 was not suitable for drinking water (with or without treatment) or bathing.

ACTIVITIES AT SITE

Activity + Designated-Best Use		Points of Concern
TG Halli water supply	X	Do current treatment levels address pollutants of concern?
Contract fishing in reservoirs	D	While water meets best use, Mercury and DDT may harm fish and transfer to humans through consumption
Irrigation on private farms	E	While meets best use, farm workers may be exposed to pollutants, and crops may be contaminated

SITE 105 IMAGES

Water testing at site 105

Polluted water at site
paani.earth/rivers/arkavathi-river