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 108, one of eight Arkavathi sites where Paani conducted sediment and water testing.

TESTING INFORMATION

POLLITION FROM UPSTREAM

HAROBELE

CHUNCHI

QUARRY



QUARRY



Pollution from upstream, agriculture, waste from built-up areas, and quarries contribute to the pollution at

Quarry

KODIHALLI

this site

Built-up area

Poțential pollution . sources

Sampling location

- Drainage lines

APPROPRIATE USE FOR WATER AT SITE

Water tested was only suitable for Central Pollution Control Board Class C

CPCB Designated-Best-Use of Sample

N/A

Due to a high onsite pH of 8.6, water tested at Site 108 was not suitable for drinking water without conventional treatment, bathing, fishing or irrigation per CPCB guidelines.

ACTIVITIES AT SITE

Activity + Designated-Best U	Jse Points of Concern
Proposed Mekedatu - Drinking water project	While meets best use, do treatment plans address pollutants of concern?
Cauvery Wildlife Sanctuary	Pollution and pH may harm endemic species like Mahseer, and smooth coated otters
Irrigation of farmlands	Farm workers may be exposed to pollutants, crops may be contaminated, high pH may impact crop health

POLLUTANTS OF CONCERN

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

QUARRY

OUARRY

chromium skin irritation

Industrial Carcinogen Hexavalent causes cancer &



66x above

Canada Water **Quality Guidelines** (Aquatic Life)

DEHP

Bis(2ethylhexyl) phthalate

PAH

plasticizer, damages liver & reproductive system

Poisonous Metal



57x above

US Recommended
Water Quality
Criteria (Human Health)

20x above
Canada Sediment
Quality Guidelines
(Aquatic Life)

Hg

harms nervous digestive and Mercury immune systems

C₂₂H₁₄

Dibenz[a,h] causes skin & eye anthracene irritation



1136x above

US Recommended Water Quality Criteria (Human Health)



Site view



Water diverted for hydro plant

paani.earth/rivers/arkavathi-river







