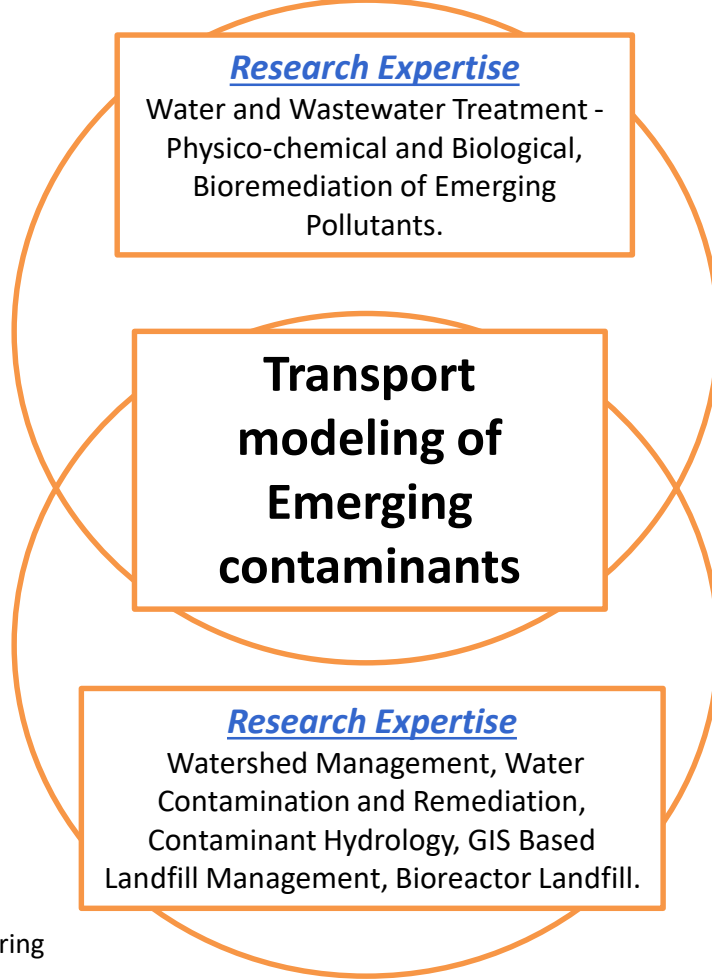




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Collection of samples from different sites and its analysis for concentration of various selected emerging contaminants seasonally.

Development of transport models for each selected contaminant

GIS mapping of the transport phenomenon of contaminants



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Since two decades, many articles have reported the presence of new compounds known as emerging pollutants/contaminants in wastewater and aquatic environments. The US-EPA defines the emerging contaminants as new chemicals without any regulatory status and its impact on human health and environment is not well understood. The work focuses on water quality research and the management pertaining to selected emerging contaminants, and then development of transport model for these contaminants using various transport phenomenon such as advection, diffusion etc in surface as well as subsurface, environment and then assessment and prioritization of those water pollutants that may pose a risk to human health and ecosystem. Finally the GIS mapping depicting transport of these selected emerging contaminants.