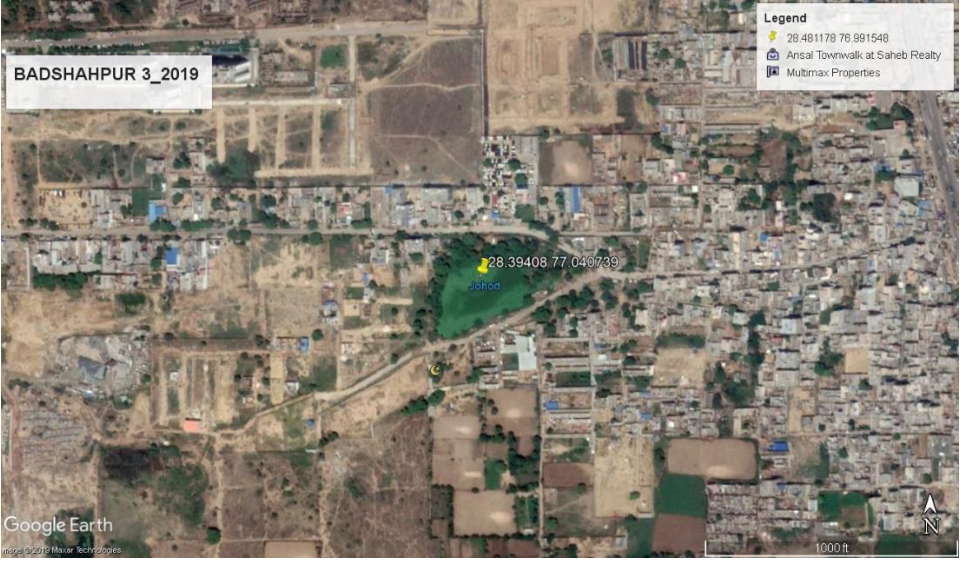



# BADSHAHPUR 4 POND PROFILING

## PHYSICAL DESCRIPTION

Name of water body	BADSHAHPUR 4
Location	Badshahpur village on Darbaripur road, Block – Gurugram 
Latitude & longitude	<b>28°39'40.8" N and 77°04'07.39" E.</b>

	
Area of water body	3.1 Acre
Maximum depth	
Mean depth	
Type of water body	Natural
Current status <ul style="list-style-type: none"> <li>• Dry</li> <li>• Encroached</li> <li>• Polluted</li> </ul>	Currently, the pond is <b>polluted</b> due to continuous <b>discharge of municipal waste</b> from the village.
Source of water inflow <ul style="list-style-type: none"> <li>• Rainfall</li> <li>• Runoff</li> <li>• River</li> <li>• Drain(covered)</li> <li>• Open drains</li> <li>• Waste water drain</li> <li>• Treated waste water from STP</li> <li>• Others (specify)</li> </ul>	Source of water/ inflow in the pond is <b>rainwater runoff</b> and <b>municipal waste</b> from the households
Is there any outflow from the water body. If any, describe	During rainy season there is <b>no outflow</b> of the water from the pond.

Water level Changes (annual) in meters	There is approximately <b>0.5 to 1.0</b> meters of the fluctuation in pond water level during the summer and the winter seasons.
Are there any river/canal/major open drain passes within a radius of 5-10 km of the water body? If so, outline the nature of their flow and distance from the water body.	There is <b>badshahpur drain</b> running at a distance of <b>650m</b> .
Groundwater level (Pre-monsoon and Post-monsoon)-	
Does the water dry out completely? <ul style="list-style-type: none"> <li>• Every year</li> <li>• During summer</li> <li>• Rarely</li> </ul>	During the summer season and when the rainfall is lower than the expected, pond <b>does not</b> gets dry out completely.
Catchment area of the water body in sq.km	
Land use of the catchment area <ul style="list-style-type: none"> <li>• Urban</li> <li>• Agriculture</li> <li>• Forest</li> <li>• Mining</li> </ul>	Catchment area of the water body is <b>urban village</b> having <b>plain topography</b>
Total Population	15593
Is the water body used by animals for drinking and bathing?	Previously the pond has been used for <b>drinking and bathing purposes</b> for animals, but due to regular <b>discharge of municipal waste</b> , the pond now acts as a collection pond for <b>waste water</b> .
Type of flora fauna found around the water body	There is mostly keekar and neem present all around.

Geo tagged image of water body	 <p>Latitude: 28.393708 Longitude: 77.040985 Elevation: 233.43m Accuracy: 6.1m Time: 28-12-2019 15:22 Note: badhshapur 1</p> <p style="text-align: right; color: red; font-size: small;">Powered by NoteCam</p>
Ownership of land	MCG
Khasra number	193/3
Landscaping around water body	<ul style="list-style-type: none"> <li>• Urban settlement can be seen around the water body.</li> <li>• Presence of neem and keekar tree with shrubs all around.</li> </ul>
Free space around water body	650sqm
Can the water body be used as active urban/public space	Yes, the water body can be used as urban/public space.
Are there any construction activities going on near the water body	There's no construction going on near the water body.

## FUNCTIONS OF WATER BODY

<p>Is the water body used for :</p> <ul style="list-style-type: none"> <li>• Drinking</li> <li>• Agriculture</li> <li>• Horticulture</li> <li>• Fisheries</li> <li>• Others</li> </ul>	None
<p>Functions of water body:</p> <ul style="list-style-type: none"> <li>• Groundwater recharge</li> <li>• Flood mitigation</li> <li>• Tourism</li> <li>• Support biodiversity</li> </ul>	<p>Currently, water body is used only for collection of waste generated from the village and also act as main source of <b>ground water recharge</b> and <b>flood mitigation</b>. It can also</p>


<ul style="list-style-type: none"> <li>• Influence on microclimate</li> <li>• Socio cultural</li> <li>• Aesthetics</li> </ul>	<p><b>support biodiversity, influence microclimate, socio-cultural and aesthetic.</b></p>
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## MAJOR PROBLEMS

<p>Major problems:</p> <ul style="list-style-type: none"> <li>• Reduction in area</li> <li>• Reduction in depth</li> <li>• Encroachment</li> <li>• Algal bloom</li> <li>• Aquatic weeds</li> <li>• Decline or loss of fisheries</li> <li>• Eutrophication</li> <li>• Organic pollution</li> <li>• Toxic pollution</li> </ul>	<p>The major problem associated with the water body is <b>reduction in depth of the water, encroachment, reduction in area, organic pollution, eutrophication</b>, which cause the decline or <b>loss of aquatic life</b> in the water body.</p>
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## SOURCE OF POLLUTION

<p>Does solid waste dumping takes place near the water body? (Organic/Non-Biodegradable)</p>	<p>Direct dumping of solid waste can be seen near the water body.</p>
<p>Solid waste disposal in water body (religious offering/idol immersion)</p>	<p>Since the pond is located inside the village and has continuous discharge of municipal waste it is <b>not used for any religious purpose.</b></p>
<p>Source of pollution in water pollution</p> <ul style="list-style-type: none"> <li>• Municipal waste</li> <li>• Industrial effluent</li> <li>• Organic waste</li> <li>• Non biodegradable waste</li> <li>• Solid waste</li> </ul>	<p>Municipal waste, organic waste.</p>

<ul style="list-style-type: none"> <li>• In pond human activity</li> <li>• Cattle wadding</li> <li>• Agriculture runoff</li> </ul>	
<p>Nutrient level in water body</p> <ul style="list-style-type: none"> <li>• Negligible</li> <li>• Low</li> <li>• High</li> <li>• Very high</li> </ul>	<p>Due to continuous discharge of the sewage nutrient level i.e., <b>eutrophication, organic pollution</b> is high in the water body.</p> 

## REMEDIAL MEASURES

Are local communities aware of the problem of water body	<b>Yes</b>
Are local communities interested in the restoration	<b>yes</b>
Any measures taken in past to restore the water body	<b>No</b>

<p>Are there active local conservation group or NGO interested/involved in the water body</p>	<p>No</p>
<p>Is it possible to source good quantum of rainwater/treated water for maintaining water level throughout the year</p>	<p>NA</p>
<p>Restoration activities require:</p> <ul style="list-style-type: none"> <li>• Improvement of water quality by in-situ treatment</li> <li>• Diversion and treatment of sewage waste</li> <li>• Desiltation for removal of toxic sediments</li> <li>• Weed removal</li> <li>• Catchment treatment to check erosion</li> <li>• Confinement of pond land</li> </ul>	<ul style="list-style-type: none"> <li>• Improvement of water quality by in-situ treatment by diverting the sewage into the STP which can be built near the water body.</li> <li>• Catchment treatment to check erosion</li> <li>• Confinement of pond land</li> </ul>