

Appendix 1. Observations from site locations at Watershed level (macro level)

Location	Level of observation							
	Watershed level							
	Land use categories	Types of impervious surfaces	Pervious surfaces	Terrain- slope	Hydrological connection between watershed and channel	Storm water drain/ sewer inlets into the channel	Proximity of buildings	Man-made infrastructure
1. Výtoň	Transport lines: train lines, via duct, tramways and roadways, residential, commercial, parking, recreation and community spaces, and Public parks.	Roadways, walkways, tramways, buildings, bridges, and parking	Parks: trees, shrubs, sparse ground cover, and paved pathways along the stream, boulevards, and promenade of trees	Gentle to medium slope	Presence of stormwater drain inlets, the stream is channelized and flows through an underground closed channel.	Present	Close proximity	Storm water drain inlets, crossing bridges, train lines, via duct, culvert
2. Nusle to Folimanka	Public Park, transport lines, residential and commercial	Roadways, walkways, tramways, buildings and parking	Parks: trees, shrubs, and ground cover	Gentle	Presence of stormwater drain inlets	Present	Close proximity	Crossing bridges, weirs, stormwater inlets
3. Park Fidlovačka	Transport lines: metro, railway line and bridge, tramways, and roadways, residential, commercial, parking, construction sites, recreation and community spaces, Public Park	Transport lines, walkways, buildings, and parking areas.	Parks: trees, shrubs, and ground cover	Gentle	Few storm water inlets	Present	Close proximity	Stormwater drain inlets, train lines, and bridges.
4. Grébovka (Havlíckovy sady)	Public Park, transport lines: tramways, roadways, railways walkways, residential, commercial, parking	Transport lines, walkways, buildings, and parking	Park area - trees and ground cover	Medium to steep	The presence of a large number of stormwater drain inlets	Present - many	Very close proximity	Storm water drain inlets, crossing bridges, train lines, highway

5. Michle	Public park, transport lines, residential, and commercial	Roadways, walkways, buildings, and parking	Natural park: trees, shrubs, ground cover, pervious pathways	Medium to steep slopes	Presence of stormwater drain inlets	Present - sparse	Reasonably distant	Crossing bridges, weirs, stormwater inlets
6. Dům Ochránců Přírody	Transport lines: railway line and station, tramways and roadways, residential, commercial, parking, sports complex, recreation and community spaces, and Public Park.	Roadways, walkways, tramways, buildings and parking	Parks: trees, shrubs, sparse ground cover, and paved pathways along the stream	Gentle to medium slope	Presence of stormwater drain inlets	Present - many	Close proximity, presence of riparian vegetation	Storm water drain inlets, crossing bridges, and train lines.
7. Hamerský rybník, Záběhlice	Transport lines: tramways and roadways, residential, commercial, parking, sports complex, recreation and community spaces, Public park, Retention pond	Roadways, walkways, tramways, buildings and parking	Parks: trees, shrubs and ground cover, natural soil, and meandering semi-pervious pathways	Medium to steep	Few storm water inlets	Present	Close proximity	Retention pond, storm water drain inlets, train station.
8. Meandry Botiče	Public park, natural park, transport lines, residential, commercial, and parking	Roadways, walkways, buildings and parking	Parks: trees, shrubs, and ground cover	Medium to steep	Presence of stormwater drain inlets	Present - sparse	Close proximity	Retention ponds, storm water drain inlets, crossing bridges.
9. Hostivař	Public park, transport lines, residential and commercial	Roadways, walkways, buildings and parking	Natural park: trees, shrubs, ground cover, pervious pathways	Steep slope towards stream channel	Storm water drain inlets directly into the channel from neighbouring areas	Present	Close proximity	Storm water drain inlets, pipes

10. Háje	Public park, transport lines, dense residential: apartments, single-family houses and row houses, commercial	Roadways, walkways, buildings and parking	Natural park: trees, shrubs, ground cover, pervious pathways	Steep slope towards stream channel	Storm water drain inlets directly into the channel from densely populated residential areas	Present - many	Very close proximity	Pipe culvert, 2 retention ponds, 1 reservoir, stormwater inlets, recreation pathway along stream
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Appendix 2. Observations from site locations at the creek channel level (micro level)

Location	Level of observation											
	Channel level											
	Width of channel	Shape of stream bank	Riparian vegetation	Physical composition of stream bank	Depth to the water surface from the bank	Physical Appearance of water	Substrates in the bottom	Presence of dead wood	Presence of dead biota	Shadowing (open, warming)	Variability of the flow	Man-made structures
1. Výtoň	Varied - 4 - 8 m	Varied: Trapezoidal with steep slopes and ground cover, rectangular channel, closed underground channel.	Trees, ground cover, paved surfaces, and riparian zones are present at some channel stretches.	Retaining walls- trapezoid with steep slopes semi-permeable with stone paving, retaining walls with rectangular shape and lack of permeable surfaces	No access to measure	Polluted with sediments and stormwater inlets.	Mostly impervious stone or concrete bed	None	No litter - the presence of garbage and sediments	Varying - some places lacked, but in some places, it was excess due to the presence of trees in the riparian zone.	Medium to rapid due to concrete channelization and closed rectangular channels	Stormwater drain outlets and pipes, retention walls, crossing bridges, interruptions such as weirs, culverts, and closed underground channels.
2. Nusle to Folimanka	2.5m to 3m	Rectangular	Few trees and shrubs	Retaining wall - masonry	2 - 2.5 m	Partially clear (greenish - presence of algae stream bed)	Stone bed - impervious	None	Low - litter	Varying - some places lacked some places, excess	Medium to rapid	Storm water drain inlets, pipes, and water indicator
3. Park Fidlovačka	8 - 12 m	Trapezoidal with gradual slopes and meanders	Trees, ground cover, exposed soil	Retaining walls- trapezoid with steep slopes and stone paving with gradual slope and moderate permeability	No access to measure	Polluted with garbage	Stone bed	None	No litter - mostly garbage and waste thrown (due to human activities in close proximity)	High shadowing - the presence of trees on channel edges	Medium to slow	Storm water drain inlets, retention walls

4. Grébovka (Havlíčkovy sady)	4 - 5 m	Trapezoidal shape with steep slopes	Sparse to nothing	Mostly impervious surfaces - with stone retaining walls or concrete surface	Varies between 3-4m and 2 - 3 m	Flow - partially clear (greenish colour) stagnant - greenish brown.	Mostly impervious stone or concrete bed	None	No litter - mostly garbage and waste thrown (due to human activities in close proximity)	Low shadowing due to lack of soil on the stream bank for the presence of trees	Medium to rapid	Storm water drain collectors, storm water drain inlet pipes, retention walls, crossing bridges, highway and railway interruptions closed part of the channel.
5. Michle	3 - 4 m	Gradually sloping with near-natural shape	Trees, shrubs, ground cover and litter, exposed soil	Soil with ground cover	0.8 - 2m	Flow - mostly clear.	Natural stream bed with soil and stones	Yes - present in most areas	High - litter	High shadowing - the presence of trees on channel edges	Medium to slow	Storm water drain inlets, stepped weirs, near natural pathways
6. Dům Ochránců Přírody	3 - 5 m, 8 - 12 m	Trapezoidal with steep slopes, trapezoid with gradual slopes with ground cover	Trees, ground cover, paved surfaces	Retaining walls- trapezoid with steep slopes semi-permeable with stone paving.	Varying from 2 - 4m	Flow - partially clear, stagnant - the presence of algae(green) and pollution (garbage)	A mixture of both impervious concrete bed and semi-permeable bed with stone masonry	None or minimal	No litter - mostly garbage and waste thrown (due to human activities in close proximity)	High shadowing - the presence of trees on channel edges	Medium to rapid	Stormwater drain outlets and pipes, retention walls, highways, and railways, crossing bridges, and interruptions such as weirs and culverts.
7. Hamerský rybník, Záběhlice	3 - 4 m, 6 - 8 m,	Trapezoidal with steep slopes, trapezoid with gradual slopes, wide natural shape with meanders	Trees, shrubs, ground cover, exposed soil	Retaining walls- trapezoid with steep slopes and stone paving with gradual slope and moderate permeability, natural sections with trees, ground cover, stones and soil.	No access to measure	Flow - partially clear (greenish colour) stagnant - greenish brown. Some retention ponds have algae.	Mixture of both impervious concrete bed and near natural bed with stones and soil	Yes - present in a few natural areas that have meanders	Medium - litter	Varying— some places lacked, and some places had excess due to the presence of trees in the riparian zone.	Medium to slow in natural parts of the channel and medium to rapid in areas with weirs and culverts	Stormwater drain outlets and pipes, retention walls, highway and railway interruptions such as weirs and culverts.

8. Meandry Botiče	2 - 3 m	A combination of mostly trapezoidal slopes and near-natural	Trees, ground cover, exposed soil	a. Retaining walls both rectangular and trapezoid. b. Stones and paving with minimum permeability	a. 2 - 2.5m b. 1.5 - 2m	a. Partially clear b. Flow - mostly clear	a. Impervious stone bed. b. Natural with stones and soil	None or minimal	Low - litter	Medium shadowing	Medium to rapid	Retention ponds, storm water drain inlets, crossing bridges.
9. Hostivař	1.5 - 2.5m	Trapezoidal with gradual slopes and meanders	Trees, shrubs, ground cover and litter	Stones and paving with permeability	Varying from 1.5 - 2m	Flow - partially transparent, stagnant - presence of algae(green)	Sand and stone - pervious	Sparse	Medium - litter	Medium shadowing	Medium to slow	Storm water drain inlets, retention walls
10. Háje	1 - 2 m	Trapezoidal with gradual slopes	Trees, shrubs, ground cover and litter	Stones and paving with partial permeability	Varying from 1.5 - 2m	Flow - partially clear, stagnant - presence of algae (green)	Sand and stone - pervious	Yes - present in many spots	High - litter	High shadowing - the presence of trees on channel edges	Medium to slow	Retention ponds, dammed reservoir, piped culverts, storm water drain inlets, construction in progress at the Hostivař dam