

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

| Location | Level of observation | | | | | | | |
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| | 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 (Havlíčkovy 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 |

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| 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 |

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| 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 | | | | | | | | | | | |
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| | 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 Fidlavačka | 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 |

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| 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. |

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| 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 |