

CW-07-19 - Appendix C: Staff Update on SOER V (2015) Recommendations

| SOER V (2015) RECOMMENDATIONS BY SDC | PROGRESS UPDATES BY CITY STAFF |
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| Natural Heritage – Chapter 1 | |
| <p>1. That City Council approve the resources required to implement the remaining Urban Forest Management Plan (UFMP) recommendations, to continue to deliver the Emerald Ash Borer (EAB) Management Strategy and focus on community outreach and awareness, and partner with other organizations and agencies.</p> | <p>In 2019, \$100,000 was approved in the city’s operating budget to update the existing UFMP. Communications and outreach will be addressed as part of the UFMP update.</p> <p>EAB Management Strategy is part of an existing Council approved action plan with annual funding of \$850,000.</p> |
| <p>2 That the city complete a review of woodlands and treed resources that are not of regional interest (ie. those that are not Significant Woodlands) to implement a means of protection to reduce clear-cutting prior to development.</p> | <p>A woodland strategy has not been completed to date. It is anticipated that this will be one of the recommendations brought forward from the UFMP.</p> <p>Urban forestry policies were incorporated into the new Official Plan.</p> |
| Land Use Planning – Chapter 2 | |
| <p>3. That the city focuses on future land planning opportunities for mobility hubs, with design principles supporting energy efficient and smart development with a sustainable transportation network.</p> | <p>Mobility Hubs resources were approved by Council and planning work is ongoing.</p> |

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| Rural Lands & Agriculture – Chapter 3 | |
| <p>4. That the city expand the position and responsibilities of the Community Garden Coordinator from seasonal part time to support the local food movement in Burlington, by encouraging local food production and distribution, and supporting urban and rural agricultural programs.</p> | <p>The Community Garden Coordinator position is now full time. The city has five gardens and plans to expand in 2020. burlington.ca/communitygardens</p> |
| Waste Management – Chapter 4 | |
| <p>5. That the city set goals and standards for waste diversion at public events being held at city parks and facilities. Work with Halton Region and the Parks & Recreation Department to develop a Waste Management guide/policy for special events being held on city property.</p> | <p>Festivals & Events have a ‘greening your event guide’ available online.</p> <p>Halton Region supports special events in Burlington to manage and divert waste. halton.ca/waste.</p> |
| <p>6. That the city complete an internal non-hazardous solid waste audit on City Hall. Establish baseline results and set a goal to increase waste diversion at city facilities. Share data with staff and follow up with the development of a waste reduction work plan.</p> | <p>A waste audit was completed and results were shared with staff.</p> <p>The city had a dedicated staff resource (FTE) from mid 2010 and mid 2012 to roll out the Towards Zero Waste program. There are no plans at this time for a dedicated staff resource for this initiative.</p> |

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| Transportation – Chapter 5 | |
| <p>7. That the city undertake Transportation Modal Split surveys on a more consistent basis than the Transportation Tomorrow Survey. It is recommended that this survey include questions to detail why residents of Burlington choose their preferred mode of transportation and what steps need to be taken to encourage residents to rely on more sustainable transportation options.</p> | <p>The city currently does not have plans to proceed with a more frequent survey due to the cost and resources required. A change in modal split will take time, so the current timing of the Transportation Tomorrow Survey at five-year intervals is sufficient.</p> |
| Energy – Chapter 6 | |
| <p>8. That the city continue the implementation of the Community Energy Plan with a focus on fuel and cost savings, by switching from gasoline vehicles to electric/hybrid vehicles, investigating opportunities for local sustainable generation (e.g. district and renewable energy), improving efficiency, increasing community engagement and improving the built form.</p> | <p>Implementation of the Community Energy Plan (CEP) is ongoing. One of the action items was to complete a district energy feasibility study. This was accomplished. Annual progress reports are submitted to council. The CEP is currently being updated and will be presented to Council in 2019. burlington.ca/cep</p> <p>The city is supporting electric vehicle adoption by installing EV charging stations at downtown locations. Burlington Electricity Services Inc. is also working with private sector entities and multi-residential developers to install EV charging stations.</p> |
| <p>9. That the city continue with corporate energy reduction targets and mechanisms to find energy saving initiatives by considering both upfront capital and operating costs.</p> | <p>Capital Works staff continue to implement the Corporate Energy Management Plan in partnership with facilities staff. Annual progress reports are submitted to council. The Corporate Energy Plan is currently being updated and will be</p> |

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| | presented to Council in 2019. burlington.ca/environment |
| 10. That the city works closely with the province to ensure the Long-Term Energy Plan results in both energy and greenhouse gas emission savings. | Staff work with the province through various networks, including QUEST and the Clean Air Partnership to provide feedback to the province on energy matters. |
| Air Quality – Chapter 7 | |
| There are no recommendations in Chapter 7. Several of the recommendations in other chapters support measures to lessen air quality impacts. | |
| Water – Chapter 8 | |
| 11. That the city implement repairs and actions to mitigate future flooding impacts based on the results of the current study being carried out by the City of Burlington, Region of Halton and Conservation Halton in a cost effective manner. The study should include an update of the design standards for the stormwater system considering climate change impacts. That the city follow the principles (e.g. electrical boxes above flood level) required by Alberta when remediation is being carried out on residences, etc. (particularly where residences have been flooded repeatedly). | <p>A flood mitigation study was completed in 2015. Recommendations of the study are being implemented through the capital budget.</p> <p>The City partnered with the Intact Centre at the University of Waterloo to prepare and implement a Home Flood Protection Program targeted at measures individual homeowners can implement on their properties to mitigate the risk of flood damage.</p> <p>Revised stormwater management design standards will be finalized in 2019.</p> <p>All electrical matters including location and minimum number of electrical receptacles are governed by the Ontario Electrical Safety Code which is regulated by the Electrical Safety Authority.</p> |

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| | <p>Burlington and Halton Region provide 'flood support' information on their websites for residents, including a 'Guide to Flooding Prevention and Recovery'. burlington.ca/flood and halton.ca/water.</p> |
| <p>12. That the city request a geotechnical report through the development planning process to ensure the proper design is applied when building construction takes place near or below the water table, particularly in low lying areas where the water table level is near the surface. Ensure the Ontario Building Code requirements are implemented, such as waterproofing of the foundation walls and measures to mitigate a reduction in the bearing capacity of the soil.</p> | <p>The Ontario Building Code has requirements for buildings located near or below the water table such as designing the structure to withstand anticipated hydrostatic pressures, designing the footings/foundations for the soil conditions and waterproofing of the foundation walls and floors-on-ground due to the high-water table level. Where a geotechnical report obtained through the Development Planning Process indicates that a building is to be constructed at or below the water table, the development engineer will flag this for follow up by the Building Section.</p> |
| <p>13. That the city, in partnership with Conservation Halton as appropriate, undertake a series of pilot projects on city properties using Low Impact Development stormwater management techniques to treat stormwater runoff at its source rather than conveying it through the traditional stormwater infrastructure.</p> | <p>LID (low impact development) measures are being incorporated by the city into road reconstruction and development projects where appropriate and/or feasible. This can be dependent on soil type.</p> <p>Developments:</p> <ul style="list-style-type: none"> • 3455 North Service Rd. has bio-swales as a pretreatment for quality control, the parking lot drains to a central island with a bioswale (it's lined so no infiltration). • 1100 Walker's Line has permeable pavers 3m x 3m around catch basins to filter surface prior to entrance to the catchbasins, a cultec for infiltration and it also has a |

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| | <p>cistern for irrigation.</p> <ul style="list-style-type: none"> • 405 Plains Rd. E. has an infiltration two stage sewer system. There's a lower perforated sewer surrounded by clear stone with an upper pvc sewer in case of larger storm events for overflow. There are also "Stormsoks" in all the catchbasins permanently to pretreat surface water to protect the two-stage sewer. • 1095/1105/1107/1109 Clay Ave. have bioswales in the parking areas and along the laneways for quality control. • 4350 South Service Rd. (DeGroot) has 100 parking spaces utilizing a bio-swale for quality control before out letting into Shoreacres Creek. The bio-swale is approximately 120 metres long with a flat slope to encourage infiltration and is densely vegetated. • Proposed parking lot on Old Lakeshore Rd. has bioswales for both quantity and quality control. • Low density residential infill projects are typically required to include infiltration galleries. <p>Capital projects:</p> <ul style="list-style-type: none"> • Townsend Ave. reconstruction - infiltration & permeable pavement (2015) • Permeable Pavers – Hidden Valley Parking Lot (2015) • Bioswale – Ireland Park south parking lot (2016) • Bioswale - Sherwood E. parking lot (2017) • Bioswale - Sherwood Main parking lot (2018/19) |

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| | <ul style="list-style-type: none"> • Native urban trees with large soil volumes (room to grow) – Elgin Phase 3 (2018) • Native Planting 1,377 trees (2013 to 2018) sponsored by IKEA. • Native Planting Lowville Park – 2,340 trees (2015, 2016, 2017, 2018) TD sponsored • Native Planting Lowville Park – 25 trees (2015) RBC Sponsored • Infiltration Gardens Burloak Park (2018) • Bruce T. Lindley School rain garden (2018) • Bioswale – Lowville Park parking lot (2019) |
| <p>14. That the city work with the Region of Halton to include measures in the water conservation and efficiency strategy that encourage water use reduction by residents and industry, such as fixture and appliance rebates plus rainwater reuse incentives, education on items like water efficient humidifiers, and water use audits.</p> | <p>Halton Region’s Toilet Rebate Program continues to offer a one-time \$75 rebate to residents who replace an old, inefficient toilet with a high-efficiency WaterSense model. Halton Region continues to host annual Rain Barrel Sales each spring that allow residents to purchase a rain barrel from the supplier at a bulk-rate price. Additional information on water efficient practices is available at www.Halton.ca/water.</p> |
| <p>15. That the city, in collaboration with Conservation Halton, should establish a groundwater well below the escarpment in Burlington, to facilitate the measurement of groundwater levels and the collection of groundwater for analysis. This monitor will provide for an assessment of the long-term trends in groundwater conditions below the escarpment.</p> | <p>At this time, there are no plans to install additional monitoring wells below the escarpment in Burlington.</p> |

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| <p>16. That the city ensure that where new development is proposed in the rural areas on private well water supply and or private sewage disposal system the region's Guidelines for Hydrogeological Studies and Best Management Practice is used to assess the development impact on groundwater quality and quantity.</p> | <p>This occurs during the development review process. If applicable, the developer is required to provide a hydrogeological report; Halton Region and the City of Burlington would review.</p> |
| Wastewater – Chapter 9 | |
| <p>17. That the city work with the region to establish a funded program for disconnection of downspouts and other rainwater handling systems from the sanitary sewer system. Several municipalities have already established programs to permanently disconnect downspouts from sanitary sewer to mitigate flooding.</p> | <p>Halton Region offers four subsidy programs to help residents protect their homes from flooding: downspout disconnection subsidy, weeping tile disconnection and sump pump installation subsidy, backwater valve installation subsidy, and sewer lateral (pipe) lining and repair subsidy. In addition, the City of Burlington has waived plumbing permit fees.</p> |
| Climate Change – Chapter 10 | |
| <p>18. That the city ensure community resiliency by working with regional partners including Halton Region, Conservation Halton and the local municipalities to develop a climate change adaptation strategy.</p> | <p>Burlington completed a study in 2015 to assess the risks of severe flooding events and assess adaptive solutions to help mitigate impacts. \$20.4 million was added to the existing 10-year stormwater capital budget and forecast for major flood improvements such as upsizing major creek culverts and creek channel improvements to increase capacity.</p> <p>The University of Waterloo's Intact Centre on Climate Adaptation launched the Home Flood Protection Program (HFFP) in Burlington. The pilot program offered a comprehensive inspection of residents' homes and a</p> |

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| | <p>recommendation report for flood risk reduction action items. It informed residents on how to reduce their risk of flooding and in turn reduce damage if flooding occurred. Over the course of the HFPP in 2017 and 2018, 120 home inspections were completed in Burlington.</p> <p>The city also implements ‘cooling’ centres during extreme heat events.</p> <p>Halton Region is studying adaptation measures in relation to wastewater infrastructure.</p> <p>A strategic initiative included in the city’s Strategic Plan is to complete and implement a climate change adaptation plan.</p> |
| Sustainable Buildings & Development – Chapter 11 | |
| <p>19. That city staff re-introduce the green building standards originally proposed in 2012 to council and that staff continue to look at options to encourage builders to include green building measures in their projects, particularly during the preconsultation meetings. Involvement of the Sustainable Development committee members would be welcome.</p> | <p>The Sustainable Building and Development Guidelines were approved by Council on April 26, 2018 alongside the adoption of the new Official Plan. While the guidelines have been approved, the Sustainable Design policies in the new Official Plan are subject to the review and approval of Halton Region. Until the approval of the Official Plan, applicants will be encouraged to consider the Sustainable Design policies and the Sustainable Building and Development Guidelines.</p> |

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| <p>20. That the city continue to undertake a training program for city staff who deal with planning applications and building permits to obtain LEED accreditation and to make use of the LEED Neighbourhood checklist developed by the SDC.</p> | <p>Staff are supported in the Planning and Building Department who wish to pursue training related to LEED™ (Leadership in Energy and Environment Design) and sustainable building measures.</p> |