

## **APPENDIX 2.1**

### **TOWN OF AJAX**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Energy**

1. **Energy Efficiency Improvements**

The Town of Ajax is undertaking consolidating and rationalizing municipal operations where environmental benefits can be realized, wherever possible. Ajax is involved in rationalizing municipal operations at the Town Hall and at the Operations Yard, which will improve energy efficiency and reduce vehicles trips. Ajax is also involved in a program to replace windows, heating equipment and air conditioning condensing units in favour of higher efficiency units in various buildings.

##### **Business, Industry and Government**

2. **Air Pollution Reduction**

The Town of Ajax seeks to reduce air pollution through point sources, municipal operations, and through fuel and equipment procurement, as opportunities arise.

3. **Alternative Energy Incentives**

Ajax will support new green energy incentives as they arise, including the use of biomass for energy production.

4. **Joint Fire Hall/Works Yard Facility**

Ajax has completed a feasibility study to establish a Joint Fire Hall/ Works Yard facility and is undertaking a municipal class environmental assessment of potential sites.

5. **Biodiesel Fuel**

Ajax has completed an initial review of the alternate source of fuel, biodiesel. A further assessment of its merits will be done this year.

6. **Tree By-law**

Ajax is currently reviewing our existing tree by-law to determine if the by-law needs to be amended to protect significant tree stands in the urban area.

## **Natural and Built Environment**

### **7. Urban Form**

The Town of Ajax continues to support Smart Growth initiatives, compact and transit supportive urban form, and Official Plan policies related to Environmental Protection. Ajax is in the process of developing new comprehensive zoning regulations that will promote compact urban form and Smart Growth.

### **8. Greening Initiatives**

The Town of Ajax supports various greening initiatives, including the implementation of a comprehensive bike and leisure trail strategy and environmentally-friendly maintenance practices.

### **9. Enhanced Bike Trail Network**

Ajax has a significant inventory of bikeways/walkways throughout the Town. A section of the north/south trail system was constructed last year in the Pickering Village area with more works planned for 2003 from Vale Crescent north to the GO Station. As well, in cooperation with the Waterfront Regeneration Trust, the Town has received SuperBuild funding to complete the Town's Waterfront Trail, within the next 3 years.

### **10. Tree Planting**

Annually the Town plants approximately 250 new and replacement trees.

### **11. Pesticide Reduction**

An annual review is undertaken of the Town's pesticides use. The Town has developed a comprehensive Plant Health Care program (Integrated Pest Management) to ensure the effective management of the Town's natural features.

## **Education and Outreach**

### **12. Environmental Committee**

The Town of Ajax supports local awareness of environmental issues through public education campaign and public participation within the Ajax Environmental Advisory Committee.

## **APPENDIX 2.2**

### **CITY OF BRAMPTON**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Anti-idling Education and Promotion**

The City of Brampton continues to educate all City Vehicle and Equipment Operators on the benefits of restricting the idling of not only City owned and leased vehicles and equipment, but also their personal vehicles. This is accomplished through continuing Operator Training and promoted through the use of Anti-Idling posters on all bulletin boards in City owned buildings and facilities.

##### **Energy**

2. **Biodiesel Fuel**

The City of Brampton continues its use of biodiesel in the all of the Central Fleet's diesel powered on-road and off-road vehicles and equipment. In 2003, the City is expanding the use of biodiesel (B20) to include the entire fleet of Transit Buses and Brampton Transit's diesel powered support vehicles.

The B20 blend the City is currently using is biodiesel combined with low sulphur diesel to give us an approximate reduction in exhaust emissions of 25%. As soon as ultra low sulphur diesel is available in the latter part of 2003, the City plans to use it to blend the B20 biodiesel, which should reduce emissions by up to 90%.

3. **Engine Idle Limiters for Fleet Vehicles**

The City of Brampton is continuing its phase in of the installation of Engine Idle Limiters on the Central Fleets light and medium duty gasoline powered vehicles. The Engine Idle Limiters will automatically shut down engines that are idling unnecessarily after five (5) minutes.

4. **Energy Efficiency Improvements for Facilities**

Through Preventive Maintenance and Upgrade programs for the HVAC systems and equipment in city owned buildings and facilities, the City of Brampton continues to reduce the amount of emissions being produced. New buildings and facilities include the most efficient and up-to-date HVAC equipment available included in their design.

## **APPENDIX 2.3**

### **CITY OF BURLINGTON**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Promote Transit**  
Continue to promote transit to reduce the number of single occupied vehicles on the road.
2. **Commuter Challenge**  
Participate in the Commuter Challenge sponsored by Environment Canada and Go for Green to reduce single occupied vehicle commuters during the first week of June, coinciding with Environment Week and Clean Air Day.
3. **Smart Commute Initiative**  
Support the Smart Commute Initiative, a GTA proposal to Transport Canada's Urban Transportation Showcase Program for funding to improve and expand commuter options in the GTA and the City of Hamilton. The proposal will introduce Transportation Demand Management (TDM) measures across the GTA at both the regional and local levels. The initiative aims to reduce traffic congestion and its economic, social and environmental costs by developing programs and local transportation management associations similar to the Black Creek Regional TMA.
4. **Anti-idling**  
Pilot a corporate idling control policy for a period of six months.

##### **Energy**

5. **Partners for Climate Protection**  
Complete Milestone I under Partners for Climate Protection, which entails completing an inventory of greenhouse gas emissions for City operations and the community.
6. **Biodiesel Fuel**  
Undertake a five month pilot to utilize biodiesel fuel for non-licensed vehicles and small engine equipment (e.g., lawn mowers and trimmers) in an effort to reduce emissions.

##### **Business, Industry and Government**

7. **Promote Halton Partners for Clean Air**  
Work with Halton Partners for Clean Air to promote the organization among business and industry and the importance of reducing impacts on air quality.

## **Natural and Built Environment**

### **8. Naturalization Initiatives**

Plant 650 trees in partnership with local community groups and schools.

## **Education and Outreach**

### **9. Anti-idling Public Awareness Campaign**

Implement its anti-idling public awareness campaign.

## **APPENDIX 2.4**

### **TOWN OF CALEDON**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Investigate the use of soy diesel for Caledon's diesel fleet**  
The Town of Caledon will continue to investigate the use of soy-diesel in its diesel fleet and a full report will be delivered to Council by the end of the summer, 2003.

##### **Energy**

2. **Energy Efficiency**
  - The Town of Caledon continues to retrofit existing facilities to improve energy efficiency.
  - Replacement of air handling and cooling roof top units and ductwork at Albion Bolton Community Centre with modern energy efficient units and systems.
  - All lighting in renovated areas to be energy efficient fixtures and bulbs.
  - Roof replacement at Community Centre will include increased insulation to R20.
  - Insulation will be added to the Rosehill Schoolhouse roof as part of the re-shingling work on this heritage home.

##### **Business, Industry and Government**

3. **Action Plan to meet Kyoto Objectives**  
An action plan is being developed to assist the Town in meeting its Kyoto objectives to include residents, business and the municipality. This plan will include an extensive education programme on energy efficient light bulb replacement, a stewardship programme and a measurement programme for households with a "kill-a-watt" device.
4. **Community Planning and Land Use**  
Community Planning for land use in Mayfield West to encompass energy efficient buildings and service design.

##### **Natural and Built Environment**

5. **Expansion of Native Tree Seedling Distribution Program**  
This program will be expanded for private and public plantings in parks, trails and public areas.

6. **Responsible Pesticide Management Objectives**

Caledon will continue to educate on the merits of eliminating or reducing the use of pesticides by distributing printed literature to residents and providing information sessions. This education strategy will continue on the recognition of the following objectives:

1. Reduce the use of pesticides in our community.
2. Reduce the exposure of humans and animals to pesticides.
3. Promote the proper application and disposal of pesticides.
4. Promote the principles of Integrated Pest Management (IPM).
5. Provide public awareness of the provision of the Healthy Horticultural Landscapes By-law.

7. **Promoting Healthy Horticultural Landscapes By-law**

Staff will continue to develop material to promote the Healthy Horticultural Landscapes By-law and will gather literature from other knowledgeable organizations who are experts in their fields on lawn maintenance, reducing pesticides and alternatives to pesticides.

8. **Test Plots to Monitor Alternative Soil and Pesticide Management Techniques**

The Town's Infrastructure Department has now established test plots in the vicinity of the municipal office. The test plots will compare different soil amendments, over seeding, and irrigation techniques. Weeds, insects, turf diseases, and the overall health will be monitored and compared to each of the other test sites.

## **Education and Outreach**

9. **Pesticide Education Program**

Education program to "get our lawns off drugs" to improve land and air quality. Caledon will continue to educate on the merits of eliminating or reducing the use of pesticides by distributing printed literature to residents and providing information sessions. The Town of Caledon will continue to work with community groups such as Caledon Countryside Alliance, Health Lawns for Healthy People, Caledon Environmental Advisory Committee and others to promote programs such as "Weedgie Kidz".

## **APPENDIX 2.5**

### **MUNICIPALITY OF CLARINGTON**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Initiation of Clarington Transit**  
Start-up of Clarington Transit, which links with Oshawa Transit (via GO Transit along Hwy #2). Initially 2 buses and 2 routes were implemented; however ridership and demand warranted a third bus being added to the system. The system includes AM and PM School Specials and has eliminated many single purpose trips.
2. **Alternative Modes of Transportation**  
Promote transit, cycling and walking as healthy and environmentally-friendly modes of transportation in the community.

##### **Energy**

3. **ITER Canadian Host**  
Clarington has promoted fusion technology and the ITER site by hosting delegations from the international partners, providing economic research and encouraging provincial and federal support. Clarington is the selected Canadian site for ITER, a multi-national research and development facility for fusion energy; the next generation of energy production.
4. **Energy Efficiency at Municipal Administrative Centre (MAC)**  
The MAC is a state of the art, energy efficient office complex linked by atrium spaces with a heritage building. The MAC centre recently opened the third addition to our historic town hall which features energy efficient lighting, computerized control to align heating and cooling with use patterns, heat recovery from building exhaust systems and a low ratio of exterior wall space. The most recent addition houses the public library and administrative offices.

##### **Business, Industry and Government**

5. **Breathe Easy Programme**  
On Smog Alert Days the municipality makes our community centres and recreation facilities available to the elderly, the young and people experiencing respiratory problems.

6. **Environmental Convergence**

Clarington supports the efforts of Ontario Power Generation (Darlington Nuclear site) in environmental initiatives. The municipality and OPG are working with lakefront neighbours and community partners to come together and exchange information, network and determine common goals to further the development of a wildlife and habitat corridor along Lake Ontario.

## **Natural and Built Environment**

7. **Stewardship Initiatives**

The municipality is promoting the naturalization and conservation of floodplain areas within the municipality through the provision of assistance and guidance to Valleys 2000 and Samuel Wilmot C.A. groups. In addition, the municipality has an active and funded acquisition strategy for waterfront lands and other natural heritage areas. In 2003, we intend to develop a new Clarington-wide stewardship strategy.

8. **Bowmanville/Westside Marsh Wetland Complex**

In partnership with St. Mary's Cement and Central Lake Ontario Conservation Authority (C.L.O.C.A) the Municipality has been able to acquire a significant portion of the Bowmanville/Westside Marsh. To accommodate the St. Mary's quarry operation a diversion scheme for the streams feeding the marsh is being implemented.

## **Education and Outreach**

9. **Benchmarking of Municipal Practices**

Clarington is undertaking an inventory of our existing policies and operations that could reduce air pollution. This benchmarking process will determine where improvements can be made in future years and include an education/awareness program for municipal staff.

## **APPENDIX 2.6**

### **TOWN OF HALTON HILLS**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1.     **Use of Alternate Fuels in Town's Fleet**  
Use of biodiesel additive to conventional diesel reduces emissions and aids the clean burning of regular diesel fuels. Town of Halton Hills is hoping to utilize biodiesel for all fleet vehicles and will monitor the noxious emissions through our contracted Drive Clean technician.

##### **Energy**

2.     **Promoting Energy Conservation**  
Continue promotion of energy use reduction in corporate buildings through the placement and use of educational materials in Town offices and facilities.
3.     **Streetlight Inspections and Preventative Maintenance**  
Regular inspections and routine maintenance reduces unnecessary energy waste and improves efficiencies.

##### **Business, Industry and Government**

4.     **Communities in Bloom**  
Continues to be a major corporate initiative in beautifying Halton Hills. In 2003 over 200 boulevard trees have been planted, gateway gardens are being regularly maintained and expanded.

##### **Natural and Built Environment**

5.     **Municipal Pesticide Use Reduction Program and Equipment**  
Continue Municipal Pesticide Use Reduction Program initiative of the Recreation and Parks Department. Purchase of hot water weed spraying equipment as an alternate method for treatment of noxious weeds and to help eliminate use of herbicides.

## **Education and Outreach**

6. **Clean Up Days**  
Wide ranging and heavily sponsored program that encourages area residents to clean up litter and debris from roads, parks and other natural areas with sponsorship provided by the Town among other local business and special interest groups
7. **Earth Day**  
Increased interest and community support for this initiative that involves tree sales, compost giveaways and educational opportunities. Town of Halton Hills hosts this annual event and offers professional tree planting, pruning and continuing care advice.
8. **Anti-idling Public Awareness Campaign**  
Promote and educate staff and the public regarding the reduction of unnecessary idling through participation in the GTA Clean Air Council's Idle Free campaign to be implemented in June 2003.

## **APPENDIX 2.7**

### **TOWNSHIP OF KING**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Energy**

1. **Alternative Energy**  
Explore a proposed demonstration project for alternative energy production in the form of a wind turbine to be installed on Township lands.

##### **Business, Industry and Government**

2. **Open Burning By-law**  
Continue the review of a proposed Open Air Burning By-law to restrict and/or regulate burning in designated areas;
3. **Pesticide Use Reduction**  
Formalize the Township Public Works Department protocol for prohibiting the non-essential application of pesticides on Municipal property.
4. **Restricting Machinery Use on Smog Alert Days**  
Public Works Department to continue the practice of restricting or canceling machinery operations on “poor air quality days”.
5. **Smart Growth**  
Continue with and finalize the Township’s Official Plan review through the Oak Ridges Moraine Conservation Plan conformity exercise, which will recognize and embrace the principles of Smart Growth.
6. **Tree By-law**  
Through the ongoing work of the King Environmental Advisory Committee (KEAC) tree sub-committee, examine the merits of developing a tree cutting by-law for the Township of King.

##### **Education and Outreach**

7. **Pesticide Reduction Campaign**  
Support the efforts of the King Environmental Advisory Committee (KEAC) in terms of the public awareness campaign of private use of pesticides including the “Pesticide Free” lawn sign initiative.

## **APPENDIX 2.8**

### **TOWN OF MARKHAM**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Review Bicycle Master Plan**  
Review status of bicycle master plan and develop a bicycle implementation strategy to enhance bicycle access on roads, trails and within transportation networks, and facilitate improved recreational and commuting opportunities.
2. **Anti-idling By-law**  
Establish an anti-idling by-law.

##### **Energy**

3. **Energy Emission Audits**  
Perform Energy Emission Audits at all Town of Markham buildings, starting with the Civic Centre.

##### **Business, Industry and Government**

4. **Tree Planting Incentives**  
Develop a policy document for tree planting incentives for businesses.

##### **Natural and Built Environment**

5. **Monitoring Program for Restoration Projects**  
Develop a monitoring program for naturalization projects, such as tree plantings, in Town of Markham that will include a database containing information on groups, locations planted, area restored, etc.
6. **Review Naturalization Practices**  
Review naturalization practices in natural areas (Phase I), and identify opportunities for enhanced naturalization in natural areas (Phase II).

## APPENDIX 2.9

### CITY OF MISSISSAUGA

#### ACTIONS TO IMPROVE AIR QUALITY 2003

##### Transportation

- 1. Smart Commute Initiative**  
Support the Smart Commute Initiative, a GTA proposal to Transport Canada's Urban Transportation Showcase Program for funding to improve and expand commuter options in the GTA and the City of Hamilton. The proposal will introduce Transportation Demand Management (TDM) measures across the GTA at both the regional and local levels. The initiative aims to reduce traffic congestion and its economic, social and environmental costs by developing programs and local transportation management associations similar to the Black Creek Regional TMA.
- 2. Enhanced Service of Mississauga Transit**  
Mississauga Transit is anticipating the delivery of 18 new buses for system service expansion in 2003/04.
- 3. Transit Marketing Strategy**  
A new 3-year Transit Marketing Strategy will focus on core market segments e.g., secondary and post-secondary school and discretionary trips, GO Rail commuters and major transit corridor trips and opportunities with major employers, educational institutions, and major shopping centres.
- 4. SmartDriver For Urban Transit Pilot**  
Piloting a transit driver training program designed to combine operator experience with new concepts and data to develop best practices for fuel efficiency, safety increase, and reductions in operational costs and maintenance.
- 5. Transit Idling Policy**  
Introducing a new transit idling policy that includes guidelines for efficient vehicle shutdowns and for minimizing vehicle idling times when on the street, in storage and while in maintenance shops, as a result of the Mississauga Anti-Idling Campaign pilot.
- 6. Multiple Use Recreational Trail Network**  
An additional five kilometres of routes to be added to the existing 150 kilometer cycling network. A new publication of the trail map in spring of 2003. Organizing the annual community bike ride.

## **Energy**

7. **Energy Management Improvements**  
Conducting energy audits, implementing energy efficiency improvements in all fire stations and Clarkson Yard and a rink lighting dimmer system at the Iceland Arena.
8. **Energenius Challenge**  
Continue promoting the Energenius Challenge: Be An Energy Efficient Employee, a corporate energy conservation awareness program; target is to use 5% less energy than in 2002.
9. **Traffic Signal Replacements**  
Proposing a city-wide retrofit program from incandescent lamps to light-emitting diodes (L.E.D.) at 390 intersections, with 85% energy savings. All new installations receive complete L.E.D.'s for all signal and pedestrian heads.

## **Business, Industry and Government**

10. **Improved Equipment Replacement**  
Replacing 2-cycle units grass string trimmers with 4-cycle units (the latter has better emission standards) through the regular equipment replacement program. Parks' utility vehicles, powered by diesel gas, are gradually being replaced by electric ones.
11. **Alternative Road Paint**  
Piloting two types of permanent water-based pavement marking on opposite sides of sections of Mavis Road (north and southbound) and Dundas Street (east and westbound).
12. **Open Burning By-law**  
Amending the Open Air By-law 40-03 to ensure outdoor fires are safe, does not prevent others' enjoyment of the outdoors, and open air burning (including cooking fires and instances where a permit has been issued) cannot take place when a smog alert has been issued for the forecast region of Halton-Peel.

## **Natural and Built Environment**

13. **Forest Management Planning Standards**  
Developing these standards by the Mississauga Urban Forest Management Advisory Committee to establish comprehensive forest management and implementation plans to maintain ecological integrity and biodiversity for all City-owned woodlands.
14. **Garden Park and Environmental Centre**  
Developing an Environmental Resource Management Plan for this unique, centrally-located 60 ha (150 acre) site, two thirds of which will remain as natural heritage.

## **Education and Outreach**

15. **Anti-idling Public Awareness Campaign**

Following the pilot, continuing to implement this public awareness and education campaign to encourage the reduction of unnecessary engine idling when parked.

16. **Community Smog Forum**

Holding a Community Smog Forum, Smog and Energy Use, Make the Connection, on June 5, 2003 to showcase energy reduction initiatives by local businesses and community groups. Anti-idling driver interventions at Mississauga schools, GO Stations, and gas stations in Mississauga will be conducted in conjunction with Smog Summit activities. (Mississauga's Smog Alert Response Plan is updated for the 2003 smog season).

## **APPENDIX 2.10**

### **TOWN OF NEWMARKET**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Green Fleets Plan**

The Town of Newmarket intends to prepare a comprehensive Green Fleets Plan in 2003 and to use the knowledge gained in preparing related public awareness and educational materials.

##### **Energy**

2. **Energy Services Affiliate Company**

In 2003, Newmarket intends to prepare a feasibility study and business plan relating to the possible creation of an energy services affiliate to Newmarket Hydro whose objectives would include the design and delivery of all Town clean air initiatives, including a demand-side management program, marketing of green energy, etc.

##### **Natural and Built Environment**

3. **Tree Protection/Preservation Bylaw**

Newmarket intends to pass a tree protection/preservation bylaw in 2003, ensuring complete compatibility with the existing Region of York Tree Bylaw.

## **APPENDIX 2.11**

### **TOWN OF OAKVILLE**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Anti-idling**  
The Town of Oakville will install, where feasible, anti idling devices to all new heavy-duty vehicles.
2. **Fleet Vehicle Purchase**  
When purchasing vehicles throughout the fleet, the Town will review options to take advantage of the latest technology to reduce emissions.
3. **Emission Controls for Equipment**  
The Town will apply the latest style engines and emission controls technology to small engine equipment such as lawn trimmers, mowers and the like.

##### **Business, Industry and Government**

4. **Environmental Strategic Plan**  
The Town of Oakville will work with the community, business and other partners to develop an Environmental Strategic Plan for the whole of Oakville.

##### **Natural and Built Environment**

5. **Pesticide Reduction**  
The Town of Oakville will include a question on the ballot in November 2003 on the ban of the use of pesticides on private land.
6. **New Development**  
The Town of Oakville will continue to incorporate principles of watershed management into the development and planning designs for new areas.

##### **Education and Outreach**

7. **Pesticide Reduction Campaign**  
The Town of Oakville will build on its commitment of \$20,000 to the Halton Partners to reduce Pesticide usage on private property by developing and implementing an education and outreach program, commencing summer 2003.

8. **Anti-idling Public Awareness**

The Town of Oakville will continue an education program for anti-idling to assist in the implementation of its anti-idling by-law.

9. **Capacity Building**

The Town of Oakville will organize and sponsor a workshop on Community Based Social Marketing to be run in June 2003, with participation from staff and Councillors, as well as representatives of other organization and community groups interested in increasing the tools for environmental improvement.

## **APPENDIX 2.12**

### **CITY OF OSHAWA**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Anti-idling Policy for Fleet Vehicles**  
Develop an anti-idling policy for implementation in City Fleet and Operations. The City participated in the Repair Our Air Fleet Challenge. The data collected in that friendly competition will be used as the basis for the development of a corporate anti-idling policy.

##### **Education and Outreach**

2. **Smog Alert Response Plan**  
Continue working with the Region of Durham on the development of a Smog Alert Response Plan that could be adopted by all municipalities within the Region.

## **APPENDIX 2.13**

### **CITY OF PICKERING**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Energy**

1. **Alternative Energy Promotion**  
Promote, through City publications and marketing programs, Ontario Power Generation's Pickering Wind Generation Station, recognized as North America's largest and most powerful wind turbine on the City's waterfront as a commitment to encouraging renewable energy sources and technology development in Pickering and the Greater Toronto Area.
2. **Alternative Energy Development**  
Create an "energy sector" economic development program focus, in partnership with the Region of Durham and other development partners, to explore and encourage opportunities for alternative energy sources and technology development in Pickering.

##### **Business, Industry and Government**

3. **Creation of a Local Air Quality Committee**  
Create an internal working group of City employees and additional stakeholders, if appropriate, to discuss and coordinate corporate initiatives and programs to improve air quality.

##### **Natural and Built Environment**

4. **Protection of Significant Natural Features**  
The City will continue to lead, and/or be involved in, various stakeholder meetings and initiatives aimed at protecting and rehabilitating significant environmental features located in or abutting the City, including the Rouge Park, the Oak Ridges Moraine, the Duffins Creek Watershed and Frenchmans Bay/Lake Ontario.

##### **Education and Outreach**

5. **Anti-idling Public Awareness Campaign**  
Promote, through a local public education program in conjunction with the passing of an anti-idling by-law, the need to reduce vehicle idling to improve local air quality.

## **APPENDIX 2.14**

### **TOWN OF RICHMOND HILL**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Smart Commute Initiative**

Support the Smart Commute Initiative, a GTA proposal to Transport Canada's Urban Transportation Showcase Program for funding to improve and expand commuter options in the GTA and the City of Hamilton. The proposal will introduce Transportation Demand Management (TDM) measures across the GTA at both the regional and local levels. The initiative aims to reduce traffic congestion and its economic, social and environmental costs by developing programs and local transportation management associations similar to the Black Creek Regional TMA.

2. **Rapid Transit System**

Work with York Region on its Quick Start Program – a rapid transit-like service to 4 major corridors in York Region: Yonge Street; Highway 7; the transit link from the Vaughan Corporate Centre to the Downsview Station on the Spadina Subway line; and the transit link from Markham Centre to the Don Mills Station on the Sheppard Subway line. Featuring minimum 10-minute frequency service during peak travel times, queue jump lanes and traffic signal priority for transit vehicles at congested intersections, Quick Start is expected to shift over 7,000 commuter trips per day from the private automobile to public transit.

##### **Energy**

3. **Local Area Action Feasibility Study**

The Town will undertake a Local Action Plan Feasibility Study to reduce both Corporate and community-wide greenhouse gas emissions. The study will focus on the energy and greenhouse gas (GHG) emissions related to Richmond Hill's corporate operations, which includes buildings, water & sewage operations, vehicle fleet and waste. The study will also address reducing community-wide emissions in the residential, commercial, industrial, transportation and waste sectors.

## **APPENDIX 2.15**

### **TOWN OF WHITCHURCH-STOUFFVILLE**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Rapid Transit**

The Town supports the York Region Master Plan to bring Regional Transit to the Town of Whitchurch-Stouffville in 2004. York Region Rapid Transit Corridors are supported and ongoing work with GO Train for expansion of Trains and schedules continues.

##### **Business, Industry and Government**

2. **Pesticide By-laws**

Investigation of legal means to control pesticide use on private properties. In 2004, we hope to follow the City of Toronto with the implementation of a pesticide by-law.

3. **Environment First Policy for Future Town Planning**

The Town has put into policy to take an environment first approach to all town planning. We look at the environment and what we have and then plan to preserve and enhance what we have. We are one of the few municipalities in York Region that has had an increase in forest cover over the past few years. We have implemented a full trail implementation program within all new subdivisions. We are planning to have more traffic calming devices that slow traffic, not stop it. This will relieve the amount of car pollution due to Stop signs.

##### **Natural and Built Environment**

4. **Building By-laws**

New Home construction will see a minimum of 300 mm of engineered topsoil, up from 100 mm, with #1 Grade Turf grasses used to reduce the need for watering and pesticides for good quality lawns.

5. **Tree Planting Programs**

The Town has initiated the Mayors Earth Day to provide areas for tree plantings and to identify future areas of environmental restoration. We are also working with local groups to plant trees in local parks to protect and enhance our natural environment. The Vandorf Park has received close to 1000 trees, 200 shrubs, and will be followed by many wild Flowers this year. This will also happen in 2004 with more than 5000 trees, shrubs and flowers in the park over 2 years.

## **Education and Outreach**

6. **Anti-idling Program**

In 2003, the Town will have a strong anti Idling Bylaw for zones around all Town-owned facilities, as well as schools within Town limits. The Town will also promote the anti idling program developed by Natural Resources Canada.

7. **Bike and Walk to Work Day**

On August 19, 2003, the Town will have the second annual Bike and Walk to Work Day for all employees. We will be expanding this to a week in 2004.

## **APPENDIX 2.16**

### **DURHAM REGION**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Business, Industry and Government**

1. **Durham Region Air Quality Working Group**

The Durham Region Air Quality Working Group lead by the Health Department will explore partnership opportunities with local municipalities to share best practices to maximize and streamline smog reduction activities throughout the Region.

##### **Energy**

2. **Energy Audits of Large Regional Facilities**

The Works Department will conduct electrical audits of 52 large Regional facilities. Each energy audit will conclude with a target commitment for energy reduction. The goal is to find and implement energy conservation and savings opportunities. Combining the individual targets for energy conservation, we will be able to commit to an overall rate of energy conservation.

3. **Optimize Energy Use for the Pickering/Ajax/Whitby/Oshawa Water Distribution System**

The Works Department will develop a hydraulic water distribution model that will simulate the water pipe network. It will be used to optimize the use of water storage resulting in energy conservation.

4. **Workplace Energy Savings Program for facilities of the Works Department**

The Energy Management Committee of the Works Department designed this program to reduce the unattended power loads of monitors, computers and printers during working times. Publications will be developed and distributed in internal newsletters and on the Regional Intranet to help foster awareness of energy efficiency amongst Regional employees.

5. **Water Efficiency Program**

The program is multi-faceted and has been evolving and expanding in scope since 1994. Projects for 2003 include: a Water and Energy Efficient Demonstration Community, a Low Flow (6 litres) Toilet Replacement Project and a Summer Student Lawn Watering Reduction project. Consumption changes are quantified in three areas: water, energy and greenhouse gas (GHG) reductions.

## APPENDIX 2.17

### REGIONAL MUNICIPALITY OF HALTON

#### ACTIONS TO IMPROVE AIR QUALITY 2003

##### Transportation

1. **Advocating for Public Transit**  
Halton Regional Council has outlined reduction of smog as one of the strategic goals in its revised Strategic Plan. Advocating for public transit is one of the actions toward this goal.
2. **Anti-idling Policy for Regional Vehicles**  
Promote anti-idling policy (to be incorporated into the Region's standard operating procedures) to all regional staff in order to raise awareness and encourage compliance for both fleet vehicles and personal vehicles used for regional business. The implementation of the policy will coincide with the launch of an awareness campaign for the public and staff.
3. **Biodiesel Fuel**  
The Halton Area Fleet Manager's Committee is recommending the use of biodiesel, once supply and pricing is established through a co-operative bid call. This bid call will also provide consideration for other alternative fuels, i.e. ethanol-based and low sulphur fuel.

##### Energy

4. **Minimize Electrical Consumption**  
Minimize electrical consumption through adjustments to parking lot lighting timers. Cleaning to be done in sections, to minimize the hours of lighting use.
5. **Building Automation Systems**  
Utilize Building Automation Systems for economizing by controlling start/stop times of fans and heating/cooling equipment. This will reduce equipment run times by incorporating after-hours shut-downs, designed to operate with a minimal recovery time.

##### Business, Industry and Government

6. **Expansion of the Halton Partners for Clean Air**  
The Region is planning to build support for developing advisory roles around health and environmental quality and a proposal to include private enterprise and consumer groups is being considered.
7. **Promote 20/20 The Way to Clean Air**  
Working in partnership with the five health units in the GTA (Halton, Durham, Peel, York, and Toronto) to expand the reach of *20/20 The Way to Clean Air* across the GTA.

8. **Hot Weather Response Plan**  
Implement a Hot Weather Response Plan, which includes issuing Heat Alerts to the community in order to protect public safety by reducing exposure to extreme heat events.
9. **Air Quality Policy Framework**  
The Health Department is currently exploring the potential for the development of a comprehensive air quality policy framework for the Region of Halton.

## **Natural and Built Environment**

10. **Evaluate and Support the Addition of Lands for the Greenlands System**  
Region of Halton is proposing the addition of “Significant Woodlands” to the Regional Official Plan Greenlands System as part of the 5-year Official Regional Plan Review.
11. **Promote Compact Urban Form**  
Through the 2002 review of the Regional Official Plan, the Region of Halton is proposing to promote public transit and compact urban form as initiatives to reduce air pollution and improve the quality of life in Halton.
12. **Creation of a “Green Fund”**  
The new Regional Official Plan directions include the creation of a “Green Fund” to promote the development of new and environmentally friendly technologies in Halton.
13. **Non-Essential Pesticide Use Policies**  
Review landscaping and grounds maintenance contracts to implement policies to eliminate the non-essential use of pesticides. This includes implementing alternative practices to replace pesticide use, i.e. developing a strategy for implementing an Integrated Pest Management (IPM) program for Regionally owned lands.

## **Education and Outreach**

14. **Promoting Public Awareness of the Impact of Smog on Public Health**  
The Halton Partners for Clean Air will promote public awareness of the impact of smog through brochures, website, displays and community events (on-going promotion).
15. **Anti-idling Public Awareness Campaign**  
Implement an anti-idling public awareness campaign to inform the public of the importance of reducing the unnecessary idling of vehicles. Campaign to entail distribution of poster and bookmark resources to public facilities, community libraries, and local schools. This campaign will be cross-promoted with area municipality idling initiatives, and the GTA Clean Air Council Idle-Free campaign to be implemented in June 2003.

16. **School Anti-idling Initiatives**

Reduce Traffic Congestion around Schools. In its participation in the local Active and Safe Routes to School (ASRTS) Steering Committee, the Halton Partners for Clean Air is advocating for increased participation in the ASRTS program, particularly in regard to International Walk to School Day participants AND school anti-idling initiatives. The partnership is seeking involvement in similar initiatives (to ASRTS), such as the Kids on the Move program, in order to cross-promote and ensure consistent messaging.

17. **Pesticide Public Awareness Campaign**

Implement an awareness campaign to inform the public of the potential health risks associated with pesticide use; safe alternatives to pesticide use for landscape maintenance on public and private property; and the need to reduce the use of pesticides in non-essential applications. Develop the program in co-operation with area municipalities and the landscape industry.

## **APPENDIX 2.18**

### **REGION OF PEEL**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Smart Commute Initiative**  
Support the Smart Commute Initiative, a GTA proposal to Transport Canada's Urban Transportation Showcase Program for funding to improve and expand commuter options in the GTA and the City of Hamilton. The proposal will introduce Transportation Demand Management (TDM) measures across the GTA at both the regional and local levels. The initiative aims to reduce traffic congestion and its economic, social and environmental costs by developing programs and local transportation management associations similar to the Black Creek Regional TMA.
2. **Energy Efficient Vehicles**  
Expand the use of gas-hybrid electric vehicles in the Public Works Department.
3. **Repair Our Air Fleet Challenge**  
Participate in the 2004 Repair Our Air Fleet Challenge, which seeks to reduce fleet fuel consumption by eliminating unnecessary vehicle idling.
4. **Sustainable Transportation**  
Encourage regional staff to commute using alternate modes of travel.

##### **Energy**

5. **Energy Efficient Buildings**  
Identify energy efficiency opportunities in 20 Regional buildings and implement the appropriate measures where feasible.
6. **Traffic Signal Replacement**  
Implement a joint venture signal replacement project with the Cities of Brampton and Mississauga to replace existing incandescent lamps with the light-emitting diodes (L.E.D.) type traffic signals
7. **Landfill Gas Utilization Project**  
Initiate the construction phase of the Britannia Landfill Gas Utilization Project. The “green power” generated as a result of this initiative will be used at the Region of Peel’s Lakeview Wastewater Treatment Plant.

## **Business, Industry and Government**

8. **Electricity Purchasing**  
Investigating the feasibility of purchasing a portion of electricity generated from renewable sources.
9. **Study on Using Edible Oil as Fuel**  
Investigate the feasibility of collecting edible oils at Regional Waste Management Facilities and having it blended into a biodiesel by a private fuel provider for future market use.
10. **Corporate Emission Reduction Trading Credits**  
Develop a corporate policy on registering, trading and retiring of corporate emission reduction credits.

## **Natural and Built Environment**

11. **Bike Racks**  
Investigate installing bike racks at new Regional buildings.

## **Education and Outreach**

12. **Carpooling**  
Enhance the Regional carpooling website and promote to all Regional staff.
13. **Raise Staff Awareness**  
Raise staff awareness on air quality issues.
14. **Anti Idling Public Awareness Campaign**  
Promote the GTA Clean Air Council idling campaign.
15. **Water Conservation**  
Encourage water conservation as part of the Peel Children's Water Festival at the Heart Lake Conservation Area.

## **APPENDIX 2.19**

### **REGION OF YORK**

#### **ACTIONS TO IMPROVE AIR QUALITY 2003**

##### **Transportation**

1. **Alternative Fuels**

- York Region is investigating alternate fuels to reduce emissions of air pollutants and greenhouse gases. The new 2003 co-op tender will commit to purchasing 30ppm low sulphur gasoline and diesel for regional vehicles.
- York Region Transit is requiring bus contractors to purchase high grade, low sulphur #1 diesel fuel.

2. **Anti-Idling Actions**

- York Region's Fleet Management is investigating an anti-idling policy for its York Region Fleets and may include add-on devices or reprogramming of computerized engines.
- York Region Transit added performance clauses and/or stringent parameters in the tender contracts to limit any unnecessary idling.
- York Region is initiating station base deployment for Emergency Medical Services vehicles during non-peak periods.

3. **Rapid Transit**

In the fall of 2004, York Region will introduce the Quick Start Program – a rapid transit-like service to four major corridors in York Region (Yonge Street, Highway 7, the transit link from the Vaughan Corporate Centre to the Downsview Station on the Spadina Subway lines, and the transit link from Markham Centre to the Dons Mills Station on the Sheppard Subway line). Featuring minimum 10-minute frequency service during peak travel times, queue jump lanes and traffic signal priority for transit vehicles at congested intersections, Quick Start is expected to shift over 7,000 commuter trips per day from the private automobile to public transit.

4. **Emission Control Units**

York Region Transit staff are installing 12 fuel control devices on selected older buses in the transit fleet in order to decrease emissions.

5. **Clean Diesel Buses**

York Region Transit purchased 35 conventional transit buses and 5 specialized transit buses with clean diesel technology for delivery in the summer and fall of 2003. As a result, York Region Transit will be retiring 8 older vehicles with less comprehensive emission controls.

## **Energy**

### **6. Light Emitting Diode (LED) Displays**

Approval was obtained recently from Council to retrofit all the traffic signal displays with LED displays. This program will reduce energy consumption for traffic signals by 90% once completed.

### **7. Building Energy Feasibility Studies**

York Region is developing Corporate-wide, joint Building Condition Audits and Building Energy Feasibility Studies (BEFS) that will be phased-in over 3 years starting mid-2003. This initiative involves feasibility analysis by identifying and evaluating energy-saving measures that are economically and technically viable.

BEFS also promotes the use of green building design practices and components (e.g. low embodied energy), and renewable and energy-efficient technology (e.g. Solarwall™, active PV, solar thermal and geothermal). The BEFS will assist York Region in making environmentally responsible decisions regarding procurement of energy technologies and asset renewal. The result will lead to sustained reductions in energy use and associated adverse emissions.

### **8. Energy Management System**

York Region is developing an Energy Management System for 2003. This involves bill verification, approvals of performance indices and environmental reporting. The system examines electricity usage and will be expanded later to include natural gas, other fuel types and water. The system will also calculate energy savings and associated emission reductions ascribed to specific energy retrofit measures.

### **9. Installed lock downs**

York Region installed lock downs on thermostats to control heating systems at various Emergency Medical Services stations.

## **Business, Industry and Government**

### **10. Repair Our Air Fleet Challenge**

York Region Transit is participating in the 2003 Repair Our Air Fleet Challenge competing against other municipalities to determine the lowest incidence of idling within a particular fleet category.

### **11. Corporate Clean Air Task Force**

York Region is forming a Corporate Clean Air Task Force with a mandate to identify, develop and recommend department-specific Corporate Clean Air Actions and to incorporate these recommended action plans into a comprehensive Regional Air Quality Policy.

12. **Organic Waste Separation**  
York Region is investigating household organic waste separation in order to reduce the amount of garbage being sent to landfill. Biogas generated through the digestion and composting process will be captured and used for electrical production reducing greenhouse gas emissions. The organic material will be composted and used as a soil amendment.

## **Natural and Built Environment**

13. **Forest Awareness and Education Campaign**  
Initiatives of York Region's Forest Awareness and Education Campaign for 2003 include:
- updating and implementing the Regional Tree By-law
  - pursuing Streetscaping and Roadside Environmental Enhancement
  - producing the "Green York" Environmental Directory
  - revising the Everyday Guide for the York Region Forest
14. **Greenlands Property Securement Strategy - A Legacy for our Future**  
York Region adopted the Strategy to guide in securing key natural heritage and greenland properties within the Region. The work in 2003 continues through the:
- continuation of existing securement partnerships and development of new partnerships
  - development and adoption of York Region land securement criteria
  - securement, stewardship and education initiatives
15. **Centres and Corridors Strategy**  
A Centres and Corridors Strategy will be finalized to facilitate the achievement of a more compact urban structure in York Region. The strategy will require a comprehensive package of land use and transportation policies, infrastructure investment (i.e. rapid transit), support programs (i.e. parking authorities) and financial tools.

## **Public Education and Outreach**

16. **WindFall EcoWorks EcoFestival**  
York Region is participating in the 2<sup>nd</sup> annual Windfall EcoFestival promoting Clean Air Day, Environment Week, use of Public Transit and celebrating healthy living in York Region. York Region Transit provided 50 free interior ad spaces to promote the event.
17. **Canadian Urban Transit Association (CUTA) Clean Air Day**  
York Region Transit is participating in CUTA's Clean Air Day in June. This year's theme is "Clean Air it's within your reach - Walk, Bike, Ride". York Region Transit (YRT) promotes Clean Air Day by providing and posting 10 exterior and 50 interior bus ads.
18. **York Region Transit Public Transit Customer Appreciation Event**  
York Region Transit (YRT) will be hosting its first customer appreciation event in June to thank customers for using public transit and encourage increased transit use.

Simultaneously, YRT also partnered with GO Transit to promote the use of our 25 cent shuttle services to the GO train stations in York Region.

19. **Bus It Program**

York Region Transit has partnered with school boards in York Region, to produce the “Bus It Program”. This learning unit focuses on four themes: transit awareness, transit safety, environmental benefits and the economic benefits of public transit.

## APPENDIX 2.20

### CITY OF TORONTO

#### ACTIONS TO IMPROVE AIR QUALITY 2003

##### Transportation

1. **Pedestrian Initiatives**

Council has adopted a Pedestrian Charter that encourages and supports walking as a safe, convenient and environmentally friendly mode of travel. The City is undertaking the following initiatives to improve the pedestrian walking environment:

- a. **New Sidewalk Policy** is a city-wide program to construct sidewalks on both sides of all arterial and collector roads where they currently do not exist. The goal is to provide safe, comfortable and accessible sidewalks on all public roads.
- b. **We're All Pedestrians Program** will undertake pedestrian protection pilot projects to evaluate a number of pedestrian safety initiatives.

2. **Clean Roads to Clean Air Program**

This program will evaluate the benefits of replacing existing City street sweeping equipment with new technology. Early computer modelling indicates that cleaning roads to a higher standard could result in a greater than 25% improvement to ambient PM<sub>10</sub> air quality.

3. **Reserved Transit Lanes**

Three environmental assessment studies are being initiated to examine the provision of reserved transit lanes on City streets to improve transit operations and promote transit use:

- Yonge Street between Finch Avenue and Steeles Avenue
- St. Clair Avenue between St. Clair Station on the Yonge Subway line and Gunns Road
- on streets between Downsview Station on the Spadina Subway line and York University.

4. **Alternate Fuels and Vehicle Test Program**

The goal of the program is to work in cooperation with suppliers to establish the City as a recognized and authoritative centre for the testing of alternative fuels, emerging technology for use in vehicles, emissions reduction initiatives and fuel conserving technology awareness programs. The technical testing program proactively seeks solutions to reduce the City's fleet related emissions and fuel cost.

5. **Smart Commute Initiative**  
Support the Smart Commute Initiative, a GTA proposal to Transport Canada's Urban Transportation Showcase Program for funding to improve and expand commuter options in the GTA and the City of Hamilton. The proposal will introduce Transportation Demand Management (TDM) measures across the GTA at both the regional and local levels. The initiative aims to reduce traffic congestion and its economic, social and environmental costs by developing programs and local transportation management associations similar to the Black Creek Regional TMA.

## **Energy**

6. **Solar Wall Project – Using nature to get the best results**  
The City of Toronto has installed a 600 square metre Solarwall™ air heating system at its Central Maintenance Garage at 843 Eastern Avenue – the first time a solar air heating system has been used at a City facility.
7. **The ‘Power’ful Plan**  
Council recently endorsed the City’s Energy Management Program, an aggressive 5-year plan that details how the City will retrofit its facilities to improve energy efficiency and how the City will deal with its energy supply, tracking and monitoring in an ever-changing energy market.
8. **Fuel Cell Demonstration Project at Exhibition Place**  
The City’s Fuel Cell Demonstration Project at Exhibition Place, will demonstrate the potential of zero emissions fuel cell technology for applications in City facilities and transportation. A 50kW HySTAT Fuel Cell Stationary Generator, a Hydrogen Refueling Station, a fuel cell powered John Deere commercial work vehicle and a fuel cell powered 40 foot passenger bus will be made available by Hydrogenics Corporation over a three-year period.

## **Business, Industry and Government**

9. **Emissions Trading Workshop**  
This workshop was hosted jointly by the City and the Clean Air Partnership in May 2003. The methodology and findings of a study called “The Environmental and Economic Effects of Emissions Trading (Phase I and II)” was presented to the GTA Area Clean Air Council and invited guests. Participants learned about emissions trading as a market-based mechanism and its potential for improving air quality and mitigating the effects of global warming and climate change. This information will be essential for municipalities in the development of policies on emissions trading.

## **Natural and Built Environment**

### **10. Urban Forest Planting and Maintenance**

The City maintains an urban forest of 500,000 street trees and 2.5 million trees in parks and natural areas. Staff will plant or oversee the planting of 50,000 trees and shrubs in parks, natural areas and along streets; 20,000 herbaceous plants will also be planted in meadows, wetlands, beach communities and the forest understorey; 75,000 city-owned trees will be maintained in good health to contribute to air quality.

## **Education and Outreach**

### **11. Participation in the 2003 Repair Our Air Fleet Challenge**

As a “lead by example” initiative, Fleet Services in cooperation with Parks and Recreation Services staff will be participating in the Making Toronto Idle Free - 2003 Repair our Air Fleet Challenge. Parks and Recreation supervisors will reduce vehicle idling, provide staff with information about the impacts of idling and encourage them not to idle. In addition, special information packages and messages will be provided to all City staff encouraging them to reduce idling of City vehicles.