6TH REPORT OF THE

ADVISORY COMMITTEE ON THE ENVIRONMENT

Meeting held on September 2, 2015, commencing at 12:19 PM, in Committee Room #4, Second Floor, London City Hall.


ABSENT: C. Baranik.


I. CALL TO ORDER

1. Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

II. ORGANIZATIONAL MATTERS

2. Orientation – Accessibility for Ontarians with Disabilities Act (AODA) – Integrated Accessibility Standards

That it BE NOTED that an orientation of the Accessibility for Ontarians with Disabilities Act (AODA) Integrated Accessibility Standards, was received.

III. SCHEDULED ITEMS

3. Orientation - Environmental and Engineering Services and Wastewater and Drainage Engineering

That it BE NOTED that the attached orientation presentations were received from:

a) the Director of Environment, Fleet and Solid Waste, with respect to Environmental and Engineering Services; and,

b) K. Chambers and E. Veittiaho, Environmental Service Engineers, with respect to Wastewater and Drainage Engineering;

it being noted that the Advisory Committee on the Environment also reviewed and received a report dated April 20, 2015, from the Director of Environment, Fleet and Solid Waste, with respect to Environmental Programs.

IV. CONSENT ITEMS

4. 5th Report of the Advisory Committee on the Environment

That it BE NOTED that the 5th Report of the Advisory Committee on the Environment from its meeting held on May 6, 2015, was received.

5. 3rd Report of the Transportation Advisory Committee

That it BE NOTED that the 3rd Report of the Transportation Advisory Committee from its meeting held on May 5, 2015, was received.


That it BE NOTED that the Notice dated May 21, 2015, from H. McNeely, Senior Planner, with respect to an application submitted by the City of London relating to the second draft of The London Plan, was received.
V. SUB-COMMITTEES & WORKING GROUPS

7. Sub-Committee Updates

That it BE NOTED that a communication dated May 21, 2015, from S. Ratz, with respect to the Advisory Committee on the Environment (ACE) Sub-Committees, was received; it being noted that the ACE heard verbal updates from the Waste Management and the Education Sub-Committees.

VI. ITEMS FOR DISCUSSION

8. ACE Best Practices

That the matter of the Advisory Committee on the Environment (ACE) best practices BE DEFERRED to a future meeting of the ACE.

9. 2016 Mayor's New Year's Honour List - Nominations Requested

That it BE NOTED that the Advisory Committee on the Environment (ACE) reviewed and received a communication dated August 5, 2015, from the City Clerk, with respect to the 2016 Mayor's New Year's Honour List (MNYHL); it noted that Members were encouraged to consider nominations for the MNYHL to bring forward.

VII. DEFERRED MATTERS/ADDITIONAL BUSINESS

None.

VIII. ADJOURNMENT

The meeting adjourned at 2:50 PM.

NEXT MEETING DATE: October 7, 2015
The Advisory Committee on the Environment is responsible for the following:

- remedial planning toward the clean-up of contaminated areas;
- waste reduction, reuse and recycling programs;
- water and energy conservation measures;
- climate change mitigation;
- to investigate such other aspects of environmental concerns as may be suggested by the Municipal Council, its other Committees, or the Civic Administration; and
- to initiate and/or receive submissions and/or delegations regarding any environmental concerns and to report with recommendations to the Planning and Environment Committee.

The Advisory Committee on the Environment (ACE) is a committee of the London City Council. ACE was established in 1973 to provide the City with advice on environmental matters. ACE is comprised of 16 members - 13 appointed by the City of London, 1 appointed by the London District School Board, and 1 appointed by the University of Western Ontario - as well as the City's Mayor and the Chair of the City's Planning Committee.

ACE has seven subcommittees, which are: Urban Design, Health, Transportation, Land Use/Planning, Property Management, Air Quality, and Water. ACE holds public meetings twice a month, and the public is welcome to attend these meetings. ACE also holds bi-annual public consultations on environmental matters, and members of the public are encouraged to participate.

In addition to its work on environmental issues, ACE also acts as an internal advisor to the City on matters such as land use and development, transportation, and economic development. ACE is committed to ensuring that London is a city that is sustainable, livable, and enjoyable for all residents.

Lead Name: John Lucas, Director – Water, Wastewater & Treatment
Telephone: 519.661.2500 x5537     e-mail: jlucas@london.ca

Who We Are
This area has, as its primary reason for existing, a focus on the protection of public health and the environment through the delivery of clean drinking water, by reclaiming water after it has been used and by disposing of contaminants removed from it in a safe manner. Water and Wastewater are highly regulated public utilities that require the application of science and engineering to plan, design, construct and operate complex systems, as well as personal commitment from decision makers.

London staff have specific training for their roles, many with significant years of service and knowledge that they share from the local to international scene.

We also provide other services for the benefit of Londoners that are based on continuous improvement principles and methods – like how we manage construction projects - and technical services to support Corporately managed economic development initiatives.

Our basic services are funded by user rates, not property taxes. As such, customer service expectations are specific to the value received – in our case, the value of water.

Clear accountabilities and financial objectives help to complete the value of water statement with a long term view to be sustainable in everything we do.
WATER ENGINEERING 2014

Lead Name: Roland Welker, Division Manager - Water Engineering
Telephone: 519.661.2500 x4662     e-mail: rwelker@london.ca

Services Provided
• Long range planning and design to address growth and renewal needs.
• Infrastructure condition assessment using historical data and innovative technologies.
• Conservation and education.
• Billing system for water and wastewater.
• Provide customer service on water accounts.
• Source Water Protection for the standby wells.
• Ensure regulatory compliance by decommissioning production wells which were previously abandoned.
• Maintain the City’s water distribution model for hydraulic capacity and water quality analyses.
• Backflow Prevention Program to ensure the safety of municipal drinking water.
• Development application reviews.

WASTEWATER & DRAINAGE ENGINEERING 2014

Lead Name: Tom Copeland, Division Manager – Wastewater & Drainage Engineering
Telephone: 519.661.2500 x4430     e-mail: tcopelan@london.ca

Services Provided
• Rebuild sanitary and storm sewer servicing infrastructure that is at the end of its lifespan.
• Plan and construct sanitary servicing to accommodate a growing City.
• Resolve system wide problems such as basement flooding and combined sewer overflows.
• Bylaws / Policies / Design Standards updates and management.
• Customer Liaison / Management of Sump Pump Grant Program.
• Liaise with internal and external groups and agencies on issues such as: development and growth, system optimization, industrial land servicing, emergency services and health of Thames River.
• Division Manager serves as London’s Municipal Flood Coordinator.

Challenges & Opportunities (2015-2018)
• York and King Drain Sewer Separation Strategy. The existing combined sewers downtown represent 3,450 linear metres of pipe that were installed between 1852 and 1926. Separation and rehabilitation of these combined sewers will allow for the intensification of the downtown core.
• Construct Development Charges-funded sanitary servicing works in the southwest quadrant.
• Develop, budget and construct mitigation works to reduce combined sewer overflows and bypasses to the Thames River.
• Completion of trunk works in the Butchart/Shell Rock area that will allow the separation of combined sewers and reduce the likelihood of basement flooding.

STORMWATER MANAGEMENT 2014

Lead Name: Scott Mathers, Division Manager – Stormwater Management
Telephone: 519.661.2500 x4430     e-mail: smathers@london.ca

Services Provided
• Protection of the environment through the quality and quantity control of stormwater.
• Water resource planning and the implementation of Regional stormwater management facilities.
• Manage the water resource component of climate change adaptation and integration of green infrastructure.
• Maintain and manage the repair and construction of the City’s system of dykes with agency partners.
• Support development through the review of stormwater servicing development studies.
• Respond to and mitigate flooding complaints.

Recent Accomplishments (2012-2014)
• New funding model for the water, wastewater and stormwater services.
• Updated Water Financial Plan achieving financial sustainability by 2017, with minimal debt.
• Developed a calibrated computer model of the water distribution system for hydraulic capacity and water quality analyses.
• Undertook energy optimization at two of the City’s eight pumping stations and received grants to undertake the work.
• Prepared web based teacher resource material for elementary and high schools to improve awareness and educate students on the water system.

STORMWATER MANAGEMENT 2014

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Challenges & Opportunities (2015-2018)
• Build appropriate reserve fund going forward in a period of declining water sales.
• Continue the development of teacher resource materials in partnership with the school boards to improve the understanding of the value of water.
• Continue the use of structural treatment technology using trenchless techniques versus full replacement.
• Utilize computer model of the distribution system to optimize energy usage at the pumping stations and undertake a vulnerability assessment of the system.
• Complete condition assessment of 25% of the large diameter watermains inside London.
**WASTEWATER TREATMENT OPERATIONS 2014**

**Services Provided**
- Water recovery and environmental protection
- Operations and maintenance of Wastewater Treatment Plants and Pumping Stations
- Maintenance, Electrical and SCADA support services for Water and Solid Waste
- Wastewater Capital Works including facility expansions and upgrades

**Recent Accomplishments**
- Biosolids upgrades completed at Greenway (2012) with $405,000 in annual operational savings and $313,000 in deferred Capital Expenditures
- International Water Centre of Excellence (IWCE) completed at Greenway (2014)
- Greenway Ash System
  - 2012 Ontario Public Works Association and American Public Works Association Technology Award
- 2014 Water Environment Association of Ontario Company Biosolids Award
- Vauxhall Plant Upgrade-2014 Ontario Consulting Engineers Award (Merit)
- Vauxhall high efficiency blower upgrade-$340,000 installed cost with $130,000 in annual energy savings plus $245,000 Ontario Power Authority incentives

**Challenges & Opportunities (2015 – 2018)**
- Greenway Expansion-construction will begin in spring 2015
- The Optimization Strategy will provide a roadmap for future works including:
  - green weather treatment improvements
  - Goodproofing
  - capacity expansions and optimization
  - life-cycle network
  - efficiency upgrades
- Establish IWCE as a World Class Research and testing facility

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**ROADS & TRANSPORTATION 2014**

**Services Provided**
- Completion of the Transportation Master Plan and incorporation of projects into the approved Development Charges by-law
- Hyde Park Road Improvements (underway)
- King Street and Meadowlily Century Bridge Rehabilitation
- Hwy 401 / Wonderland Road New Interchanges (underway)
- Wonderland Road / Sunningdale Road Roundabout
- Over 12 km of new sidewalks in priority areas
- Gore Road Bridge Replacement
- Southdale Road Improvements

**Recent Accomplishments**
- Implementation of the Smart Moves Transportation Master Plan will improve mobility and support economic growth and quality of life for Londoners
- The Rapid Transit initiative will lay the groundwork for enhanced sustainable connectivity options for all Londoners in the coming decades and will promote/catalyze infill and intensification opportunities consistent with the draft London Plan.
- A new Cycling Master Plan will identify future actions to promote mobility choices that improve the quality of life and health of Londoners
- Challenges & Opportunities (2015 – 2018)
  - Implementation of capital projects identified in the Transportation Master Plan
  - Delivery of the Rapid Transit initiative
  - Renewal of transportation lifecycle assets
  - Effective response to operational and safety concerns
  - Engineering and Education for Traffic Safety Initiatives
  - Implementation of Active Transportation (walking and cycling) facilities
  - Transportation Asset Management

**Who We Are**
- The Roads and Transportation area is responsible for mobility management delivered through a customer focused lens.
- The area is divided into 5 divisions, delivering infrastructure projects, maintaining assets and operating our infrastructure in a safe, efficient and sustainable manner.

**TRANSPORTATION PLANNING & DESIGN 2014**

**Services Provided**
- Implementation of capital projects identified in the Transportation Master Plan
- Delivery of the Rapid Transit initiative
- Renewal of transportation lifecycle assets
- Effective response to operational and safety concerns
- Engineering and Education for Traffic Safety Initiatives
- Implementation of Active Transportation (walking and cycling) facilities
- Transportation Asset Management

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**Who We Are**
- The area is divided into 5 divisions, with each division delivering numerous programs and projects. Our top 3 collective goals are:
  1. Meeting or exceeding customer expectations
  2. Delivering valued services in a cost effective and safe manner
  3. Protecting and improving the environment through service delivery and community engagement

**ENVIRONMENT, FLEET & SOLID WASTE 2014**

**Services Provided**
- Engagement, Fleet & Solid Waste
- Vauxhall high efficiency blower upgrade-$340,000 installed cost with $130,000 in annual energy savings plus $245,000 Ontario Power Authority incentives

**Recent Accomplishments**
- Installation of high efficiency blowers at the Vauxhall Plant
- Greenway Ash System
  - 2012 Ontario Public Works Association and American Public Works Association Technology Award
- 2014 Water Environment Association of Ontario Company Biosolids Award
- Vauxhall Plant Upgrade-2014 Ontario Consulting Engineers Award (Merit)
- Vauxhall high efficiency blower upgrade-$340,000 installed cost with $130,000 in annual energy savings plus $245,000 Ontario Power Authority incentives

**Who We Are**
- The area contains excellent and dedicated staff with a number of internal and external services operating under two “Calls to Action.” First we live under a philosophy of Continuous Improvement and, second, we operate under an operational banner called At Your Service. The area contains excellent and dedicated staff with a number having more than 25 years experience in their respective fields. We are also fortunate to work with or alongside some of the best private sector companies and their employees that the business has to offer. The skills and business smarts exhibited by our contractors is an asset to the businesses and residents of London.
- The area is divided into 4 divisions, with each division delivering numerous programs and projects. Our top 3 collective goals are:
  1. Meeting or exceeding customer expectations
  2. Delivering valued services in a cost effective and safe manner
  3. Protecting and improving the environment through service delivery and community engagement

**Environment, Fleet & Solid Waste**
- Environmental & Engineering Services
ENVIRONMENTAL PROGRAMS 2014

Lead Names: Jamie Skimming; Pat Donnelly – Environmental Programs
telephone: 519.661.2500 x5204; x0418  e-mail: jskimmin@london.ca; pdonnell@london.ca

Services Provided
• Active Transportation, Cycling and Transportation Demand Management
• Air quality, climate change, energy conservation & community energy programs
• Corporate Energy Management
• Urban watershed programs
• Community outreach & engagement
• Support for corporate environmental actions

Key Performance Indicators
• Engaged 40 stakeholder groups
• Engaged 10 neighbourhoods and communities
• Participation in 25 community events
• Supported 7 corporate actions, including Rethink London and the Climate Change Adaptation Strategies Project

Challenges & Opportunities (2015 – 2018)
• Senior government energy policies and programs will have significant influence on how London’s Community Energy Action Program (CEAP) is implemented.
• London’s Employment Standards Act will have an influence on the implementation of several program areas including watershed, the CEAP as well as the longstanding Comprehensive AT and TOM Actions.
• Greater emphasis will be placed on working with key stakeholders and community champions who can influence a large number of Londoners.
• New programs related to implementation of Source Water Protection will expand education activities for water conservation and protection.
• New information technologies and new/social media provides challenges and opportunities for reaching out to Londoners

ENVIRONMENTAL PROGRAMS 2014

Services Provided
• Fleet Administration and Asset Management
• Fleet Planning – Capital Acquisitions and Disposal
• Fleet Maintenance – Fleet Repairs and Service
• Fuel Management – Supply Storage and Dispensing Facilities
• 24/7 Operational Dispatch Centre
• 2-Way Radio System – Programming and Radio Asset Management
• Scheduling external equipment resources

FLEET & OPERATIONAL SERVICES 2014

Lead Name: Mike Bushby, Division Manager – Fleet & Operational Services
Telephone: 519.661.2500 x4961     e-mail: mbushby@london.ca

Services Provided
• Fleet Administration and Asset Management
• Fleet Planning – Capital Acquisitions and Disposal
• Fleet Maintenance – Fleet Repairs and Service
• Fuel Management – Supply Storage and Dispensing Facilities
• 24/7 Operational Dispatch Centre
• 2-Way Radio System – Programming and Radio Asset Management
• Scheduling external equipment resources

FLEET & OPERATIONAL SERVICES 2014

Recent Accomplishments (2012 - 2014)
• Introduced BS (diesel) significantly reducing our emissions and environmental impact
• Expanded shared services model, EMS and Fire activity using public works reticulating infrastructure saving money interdependently utilizing public infrastructure
• Completed Pilot internal audit process
• Fleet Challenge E3 (Energy, Environment, Excellence) review process underway
• Met operating and capital budget reductions annually over the past three years
• Introduced the first completely electric vehicle with “0” emissions into the fleet

SOLID WASTE COLLECTION 2014

Lead Name: Kevin Springer, Manager – Solid Waste Collection
telephone: 519.661.2500 x5578     e-mail: kspringe@london.ca

Services Provided
• Curbside Pickup
• Multi-residential Pickup
• Leaf & Yard Waste Pickup
• Downtown & Litter Bin/Container Pickup
• Special Pickup

General Statistics
• 28 rear packers; 3 side loaders; 5 top loaders
• 130,000 households collected curbside
• 51,000 multi-unit collected
• 92,000 tonnes of garbage collected per year
• 10,000 tonnes of leaf and yard waste collected per year

FLEET & OPERATIONAL SERVICES 2014

Environment, Fleet & Solid Waste
Environmental & Engineering Services

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Environment, Fleet & Solid Waste
Environmental & Engineering Services
SOLID WASTE COLLECTION 2014

Challenges & Opportunities (2015 – 2018)

• The physical nature of garbage pickup from a health and safety perspective will be further examined by City staff. This will include examining new garbage is placed at the curb, type of containers and type of collection vehicles.
• Meeting customer needs and expectations remains our number one priority and having the right balance of services, cost and expectations is key.
• Fuel costs continue to rise, prompting the need to examine the future potential role of compressed natural gas (CNG).
• Reducing/containing costs continues to be a challenge as the city grows in the north end and increasing the hauling distance to the W12A Landfill site in the south end.
• Health and safety, training and more stringent Provincial Government regulations and policies with respect to garbage collection remain a high priority and are being addressed through programs and technology.

SOLID WASTE MANAGEMENT 2014

Challenges & Opportunities (2015 – 2018)

• The City needs to continue planning for long term disposal capacity (next 40 years) as the W12A Landfill only has 9 to 12 years of capacity remaining. The Environmental Assessment process will begin in late 2015 and take 3 to 5 years.
• The area around the W12A Landfill allows for various resource recovery facilities to be located. The first resource recovery facility to be sited on these lands was the City’s new Regional MRF (recycling centre). The opportunity exists to establish more resource recovery facilities.
• Waste diversion initiatives/programs in Road Map 2.0 - The Road to Increased Resource Recovery and Zero Waste and the Interim Waste Diversion Plan 2014-2015 will be implemented subject to available budget.
• There are several factors beyond the control of the City that may have a dramatic impact on the funding, timing and requirements (e.g., expected introduction of new Provincial waste diversion legislation, increased environmental protection).

SOLID WASTE MANAGEMENT 2014

Lead Name: Wesley Abbott, Division Manager – Solid Waste Management
telephone: 519.661.2500 x1812 e-mail: wabbott@london.ca
Environmental & Engineering Services Call Center: 519.661.4570

Services Provided

• Recycling
• Composting
• EnviroDepots & Household Special Waste Depot
• Community Outreach and Engagement
• Waste Disposal
• Management of Closed Landfill
• Contract Management
• Long Term Solid Waste Management Planning

Key Performance Indicators

• Waste diversion rate of 44%; 29,000 tonnes annually
• Captured and destroyed 113,000 tonnes of Greenhouse Gases equal to removing 30,000 cars from the road
• Total gross cost of $79 per household per year
• Net operating cost of $33 per household per year
Introduction to the Wastewater and Drainage Engineering (WADE) Division

September 2, 2015

Who We Are

- Professional Engineers and Certified Technologists
- Based on the 9th floor of City Hall, field work performed throughout London
- Committed to providing safe, cost-effective, dependable and environmentally conscious sewerage and drainage services for its customers

Services Provided

- Lifecycle Replacement
  Management of Capital Programs
- System Improvements
  Reducing basement flooding, overflows and bypasses
- Growth
  Development Planning and Approvals
- Customer Liaison

Lifecycle Renewal Program

- To determine best means to reduce overflows and bypasses and to prevent basement flooding
- Pollution Prevention Control Plan (PPCP)
- Basement flooding grant program

For more info please visit www.london.ca/ppcp and www.london.ca/sumpumpgrant

System Improvements

- Installation of Backflow Valve
- Lifecycle Renewal Program
  Older infrastructure requires replacing
  Economically advantageous to replace it before it fails

Infrastructure Growth

- Expansion of the City’s sanitary sewerage system to support future residential, institutional, commercial and industrial lands
Future Outlook

• Reduce basement flooding and sewer overflows

• Renew aging infrastructure (Infrastructure Renewal Program)

• Undertake capital projects to support growth and intensification (Growth Management Implementation Strategy [GMIS])