

A scenic view of a park with a fountain, trees, and a person with a bicycle. The fountain is in the background, with water spraying upwards. A person is standing on the right side of the frame, looking towards the fountain. The scene is framed by large trees in the foreground.

City of London's
Environmental & Engineering Services:
A snapshot of what we deliver to London

TABLE OF CONTENTS

Managing Director & City Engineer

Regional Water Supply

Water, Wastewater & Treatment

Water Operations
Water Engineering
Construction Administration
Industrial Land Development
Sewer Operations
Wastewater Treatment Operations
Wastewater & Drainage Engineering

Roads & Transportation

Stormwater Management
Roadway Lighting & Traffic Control
Transportation Planning & Design
Transportation & Roadside Operations
Geomatics

Environment, Fleet & Solid Waste

Environmental Programs
Fleet & Operational Services
Solid Waste Collection
Solid Waste Management

MANAGING DIRECTOR & CITY ENGINEER

Lead Name: John Braam, Managing Director & City Engineer

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Overview

- Environmental and Engineering services
- Design planning, engineering, construction, operations and maintenance
- What we do...
 - 200 capital works/programs
 - \$360 million annual budget
 - 1000 FT, PT & C employees
 - 85% of City's assets (\$9 B)
 - Legislatively driven.



Environmental & Engineering Services

MANAGING DIRECTOR & CITY ENGINEER



Our Purpose (Mission)

- Provide safe, dependable, affordable and environmentally responsible services
- Technology driven solutions for sustainability and best value services.

Goals

1. Engage and meet our customers' needs,
2. Health protection and environmentally sensitive and sustainable city.

MANAGING DIRECTOR & CITY ENGINEER

Our Core Areas Include:

- Regional Water Supply
- Water, Wastewater and Treatment
- Roads and Transportation
- Solid Waste Management
- Our technical, operational and multi-disciplinary collaboration services:

Construction Administration, Environmental Programs, Fleet and Operational Services, Geomatics, and Industrial Land Development.



Environmental & Engineering Services

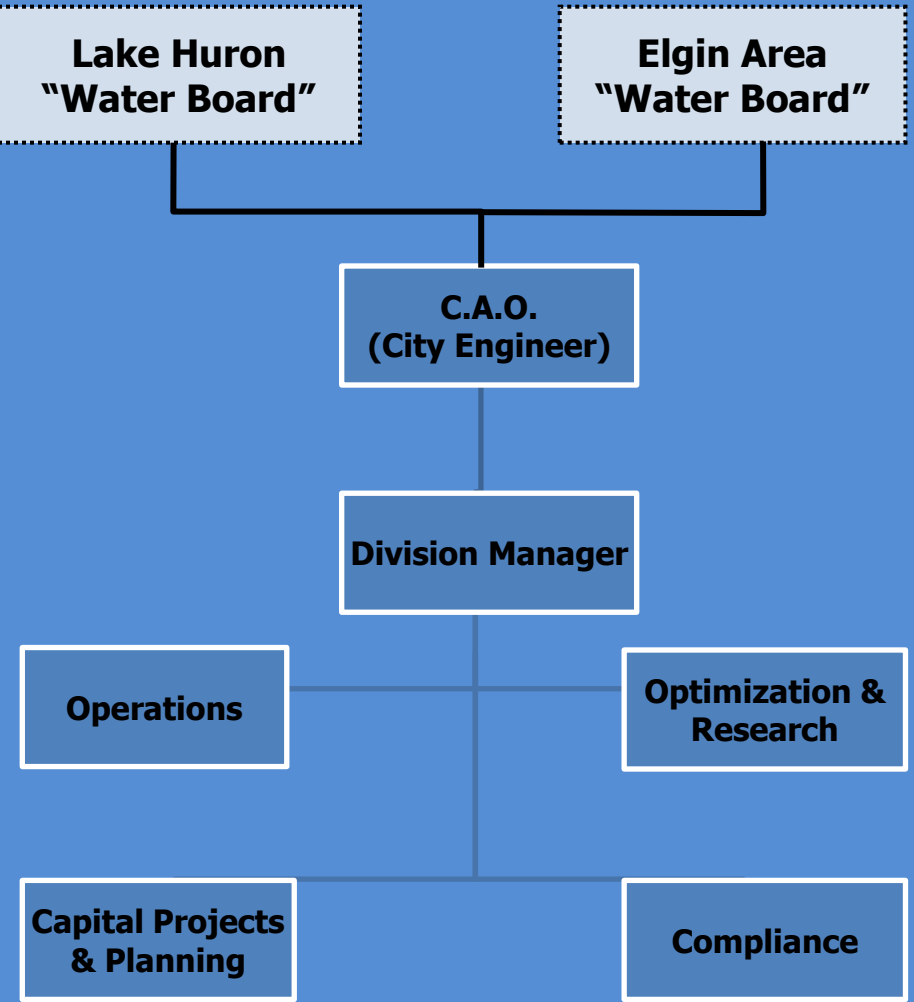
MANAGING DIRECTOR & CITY ENGINEER

Strategic Drivers

1. Customer focused and delivering service excellence
2. Effective local collaboration and being connected
3. Fiscally responsible and managing our assets
4. Drive towards sustainability
5. Continuous improvement through more research, innovation and creativity



REGIONAL WATER SUPPLY 2014



**Regional Water Supply
Environmental & Engineering Services**



REGIONAL WATER SUPPLY 2014

Lead Name: Andrew Henry, Division Manager – Regional Water Supply

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Challenges & Opportunities (2015 – 2018)

- Acoustic Fibre Optic Monitoring System within the Huron primary transmission pipeline (\$7.5 million)
- Asset Management Plan incorporating customer-focused Level of Service and Risk Mitigation Strategy approach
- Energy and Pump Optimization Study
- Updated Financial Plan
- Replacement of the filtration system at the Elgin Area water treatment plant (\$3.5 Million)
- Completion of a Residuals Management Facility at the Elgin Area treatment plant (\$32 Million)



WATER, WASTEWATER & TREATMENT 2014

Lead Name: John Lucas, Director – Water, Wastewater & Treatment

Telephone: 519.661.2500 x5537 e-mail: jlucas@london.ca



“protecting public and environmental health, recognizing the value of water in all its forms”

Who We Are

- focus on the protection of public health and the environment
- provide clean drinking water, reclaim water
- highly regulated public utilities
- personal commitment from decision makers
- knowledge shared from the local to international scene
- manage construction projects
- technical services for economic development initiatives
- user rate with financial objectives
- value of water
- be sustainable in everything we do

WATER, WASTEWATER & TREATMENT 2014

Lead Name: John Simon, Division Manager – Water Operations

Telephone: 519.661.2500 x4938 e-mail: jsimon@london.ca

Challenges and Opportunities (2015 – 2018)

- Southeast Reservoir and Pumping Station
- Drinking Water Quality Management System
- Computerized Maintenance Management System
- Best practices for preventative maintenance:
 - large-diameter transmission main condition assessment
 - pumping station energy optimization
 - leak detection



WATER, WASTEWATER & TREATMENT 2014

Lead Name: Roland Welker, Division Manager – Water Engineering

Telephone: 519.661.2500 x5593 e-mail: rwelker@london.ca



Challenges & Opportunities (2015 – 2018)

- Build appropriate reserve fund
- Teacher resource materials in partnership with the school boards
- Structural lining technology using trenchless techniques versus full replacement
- Optimize energy usage at the pumping stations and undertake a vulnerability assessment of the system
- Complete condition assessment of 20% of the large diameter watermains inside London

WATER, WASTEWATER & TREATMENT 2014

Lead Name: Rick Pedlow, Division Manager – Sewer Operations Division

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Challenges and Opportunities (2015 – 2018)

- Recycled water hook-ups for the sanitary flushing program
- Gordon Trunk Sanitary Sewer Rehabilitation Project through trenchless technology
- Implement a Computerized Maintenance Management System.



WATER, WASTEWATER & TREATMENT 2014

Lead Name: Geordie Gauld, Division Manager – Wastewater Treatment Operations

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Challenges & Opportunities (2015 – 2018)

- Greenway construction will begin
- Optimization Strategy will provide a roadmap for the future:
 - wet weather treatment improvements
 - flood proofing
 - capacity expansions and optimization
 - life cycle renewals
 - efficiency upgrades
- Establish IWCE as a World Class Research and testing facility



WATER, WASTEWATER & TREATMENT 2014

Lead Name: Tom Copeland, Division Manager – Wastewater and Drainage Engineering
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Challenges and Opportunities (2015 - 2018)

- Thames Rivers Watershed Plan
- York / King Streets Sewer Separation Strategy
- Southwest Area Plan sanitary servicing
- Reduce combined sewer overflows and bypasses to the Thames River – PPCP
- Trunk works in Burbrook / Vauxhall



WATER, WASTEWATER & TREATMENT 2014

Lead Name: Justin Lawrence, Division Manager – Construction Administration

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Challenges and Opportunities (2015 – 2018)

- More stringent interpretation of provincial health and safety requirements
- Work towards shortening schedule of construction projects on major roads and intersections
- Coordinating City-wide construction program in a road system that is at capacity



WATER, WASTEWATER & TREATMENT 2014

Lead Name: Robert Sutton, Division Manager – Industrial Land Development

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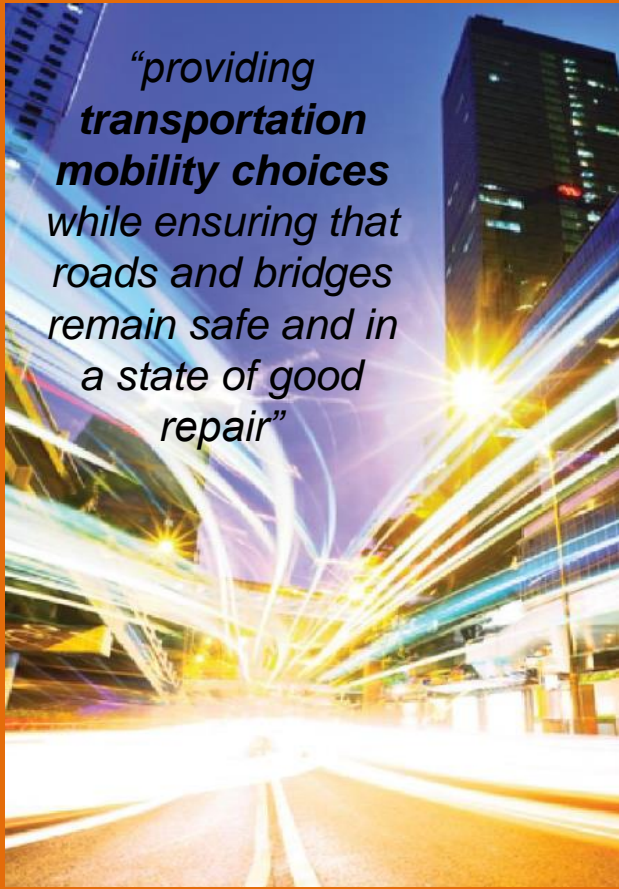


Challenges & Opportunities (2015 – 2018)

- Achieving the ILDS goal of maintaining 200 hectares of serviced industrial land
- 4,600 new industrial jobs and 4,000 new construction jobs over the next 10 years.
- subject to property acquisition and securing sufficient funding from other levels of government.

ROADS & TRANSPORTATION 2014

Lead Name: Edward Soldo, Director – Roads & Transportation
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“providing transportation mobility choices while ensuring that roads and bridges remain safe and in a state of good repair”

Who we are

The Roads and Transportation area is responsible for **Transportation Mobility Management** delivered through a customer focused lens.

The area is divided into 5 divisions, delivering infrastructure projects, maintaining assets and operating our infrastructure



Roads & Transportation
Environmental & Engineering Services



ROADS & TRANSPORTATION 2014

Lead Name: Doug MacRae, Division Manager – Transportation Planning & Design
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Challenges & Opportunities (2015 - 2018)

- Manage the Transportation Infrastructure Gap.
- Implementation of the Smart Moves Transportation Master Plan as per the GMIS
- Complete the Rapid Transit Environmental Assessment, obtain Provincial and Federal funding support, begin to implement priority corridors.
- Undertake new Cycling Master Plan, undertake key project implementations.



ROADS & TRANSPORTATION 2014

Lead Name: Shane Maguire, Division Manager – Roadway Lighting & Traffic Control
Telephone: 519.661.2500 x8488 e-mail: smaguire@london.ca



Challenges & Opportunities (2015 – 2018)

- Upgrades/optimization of the traffic signal system for increased traffic flow coordination Optimization of traffic flows through the coordination of signals
- Potential implementation of Phase 1, conversion of High Pressure Sodium (HPS) street lights to LED street lights on major roads.
- Prepare a business case for the potential implementation of Red Light Camera enforcement in 2017 to improve safety at London's signalized intersection.
- Review School Crossing Program

ROADS & TRANSPORTATION 2014

Lead Name: Gary Irwin, Chief Surveyor and Division Manager – Geomatics

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Opportunities and Challenges (2015-2018)

- Consolidate CAD technologies to reduce support costs and improve production flexibility
- Continue to develop and integrate GIS databases in support of support of Corporate initiatives (CMMS, CAM etc.)
- Complete plan file conversion to electronic database
- Expand surveying and engineering design services to satisfy a broader range of infrastructure projects through synergies with other divisions and the efficient application of additional resources
- Alignment with new Corporate technologies

ROADS & TRANSPORTATION 2014

Lead Name: John Parsons, Division Manager – Transportation and Roadside Operations
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Inquiries call center: 519-661-4570



Challenges & Opportunities (2015 – 2018)

- Manage the operational issues associated with the Transportation Infrastructure Gap.
- AODA implementation and potential service level enhancements
- Increased funding and workload arising from Council endorsed Urban Forestry Strategy Targets
- Implementation of a CMMS system to optimize work processes and operational costs
- Communication / engagement of the public in the delivery of service

ROADS & TRANSPORTATION 2014

Lead Name: Scott Mathers, Division Manager – Stormwater Management

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Challenges & Opportunities (2015 – 2018)

- Completion of Climate Change Adaptation Water Resource Strategies
- Implementation of Regional SWM facilities as identified in the Growth Management Implementation Strategy
- Construction of the Dingman Creek Erosion Control Facility
- Construction of Fox Hollow #1 Stormwater Management Facility Phase 1



PARKING ENFORCEMENT 2014

Lead Name: Annette Drost, Manager – Municipal Law Enforcement Services

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Challenges & Opportunities (2015 – 2018)

- Continued replacement of individual parking meters with master meters where warranted to provide more options for payment and enhance efficiencies;
- Implementation of new parking software to improve customer service, enhance technology capabilities and more efficiently process parking infractions.
- Ongoing expansion of the highly sought Private Property Parking Enforcement program to provide parking enforcement on private properties that require assistance in managing parking needs.
- Developing long range work plan to rehabilitate City parking lots including lighting, asphalt, landscaping, accessible parking etc. following the completion of the condition study conducted in 2014.



**Parking & Licensing
Development and Compliance Services**

ENVIRONMENT, FLEET & SOLID WASTE 2014

Lead Name: Jay Stanford, Director – Environment, Fleet & Solid Waste

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Who We Are

We provide our services directly or indirectly to all London citizens, many businesses, students and visitors We:

1. are the team that helps Londoners and businesses become Green
2. makes sure vehicles and equipment are available to get the job done
3. handles garbage, litter, leaves and yard waste
4. makes sure materials are diverted from landfill and garbage is safely disposed of

Environment, Fleet & Solid Waste
Environmental & Engineering Services

ENVIRONMENT, FLEET & SOLID WASTE 2014

Lead Names: Jamie Skimming; Pat Donnelly – Environmental Programs

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Challenges & Opportunities (2015 – 2018)

- Increasing energy conservation and reducing the \$1.5 billion spent on energy as part *Community Energy Action Program*
- Growing AT & Cycling and TDM Actions
- Implementing Source Water Protection and watershed stewardship
- Environmental outreach and community engagement – inspiring Londoners and businesses to be greener
- Creating community and business champions who can influence a large number of Londoners.



**Environment, Fleet & Solid Waste
Environmental & Engineering Services**



ENVIRONMENT, FLEET & SOLID WASTE 2014

Lead Name: Mike Bushby, Division Manager – Fleet & Operational Services

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Challenges & Opportunities (2015 – 2018)

- Internal action plans to help make our customers successful (e.g., At Your Service, employee engagement)
- Continued spending and cost reductions while maximizing sustainable, affordable, safe, and “right fit” fleet solutions for our customers
- Finalize the City’s Green Fleet Plan to lower fuel use, emissions and reduce our carbon footprint
- Grow shared service opportunities and relationships with our public service partners (e.g., Library, Tourism, Fire, Police, EMS, Transit)

ENVIRONMENT, FLEET & SOLID WASTE 2014

Lead Name: Kevin Springer, Manager – Solid Waste Collection

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Environmental & Engineering Services Call Center: 519.661.4570

Challenges & Opportunities (2015 – 2018)

- Customer - Meeting needs and expectations is our #1 priority . . . delivering the right mix of services at the right cost
- Service delivery – Addressing the physical nature of garbage pickup, increasing productivity and ensuring health and safety is addressed
- Reducing/containing costs as the city grows in the north end further away from the W12A Landfill Site
- Health and safety, training and more stringent Provincial regulations and policies



ENVIRONMENT, FLEET & SOLID WASTE 2014

Lead Name: Wesley Abbott, Division Manager – Solid Waste Management

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Environmental & Engineering Services Call Center: 519.661.4570

Challenges & Opportunities (2015 – 2018)

- Implementing *Road Map 2.0 - The Road to Increased Resource Recovery and Zero Waste*
- Addressing factors beyond the control of the City (e.g., new Provincial waste diversion legislation, increased environmental protection)
- Launching the Environmental Assessment for Resource Recovery, Waste Conversion and Long-term Waste Disposal
- Examining and expanding opportunities for more facilities in the Waste Management & Resource Recovery Area

