



Kingston Fire & Rescue

2021 Community Risk
Assessment Summary

Introduction

Kingston Fire & Rescue's (the Agency) Community Risk Assessment/Standards of Cover (CRA-SOC) identifies the probability, consequence and impacts of community risks across the Agency's area of responsibility. The goals and objectives were developed, in part from the Community Risk Assessment and through the Agency's Strategic Planning process. A Standards of Cover document, (SOC) accompanies the Community Risk Assessment. The SOC outlines the planned and organized response of apparatus and staffing from each response location and identifies the remaining resources available to support additional responses. The approved response time benchmarks are used to evaluate baseline performance of the Agency to all identified community risks. The information and research from the CRA-SOC will assist the Agency in identifying gaps in the delivery of programs and services.

The Community Risk Assessment/Standards of Cover is an important component to the overall Centre for Public Safety Excellence, (CPSE), Quality Improvement Through Accreditation Process (QITA) process. The Agency's overall performance will be formally measured and appraised annually to continually improve programs and services.

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Executive Summary

The City of Kingston (AHJ)^A and surrounding area has a rich and diverse history of protecting its community dating back to the 1700's.

Consistent with its history, Kingston Fire & Rescue's (Agency)^B Community Risk Assessment/ Standards of Cover (CRA-SOC) provides detailed information about community risks and the Agency's overall performance responding to those risks. The findings will assist with the Agency's planning, preparation and mitigation of community risks that threaten life, property, and the environment.

Since amalgamation of the modern day AHJ in 1998, the Agency has responded to many significant emergencies. Most recently the AHJ and the Agency has worked with internal and external stakeholders on the global COVID-19 Pandemic response.

The Agency's mission is to protect people and property while minimizing environmental impacts resulting from emergencies.

The Agency's Values:

- Teamwork
- Respect
- Integrity
- Pride

The Agency's Standard Response Goals:

- Safety and Health of Responders
- Save Lives
- Reduce Suffering
- Protect Public Health
- Protect Critical Infrastructure
- Protect Property
- Protect the Environment
- Reduce Economic and Social Losses

In response to community risks, the Agency deploys at least a minimum level of staff, apparatus, and equipment across the coverage area. Minimum staff and equipment levels are established for all initial responses to a variety of community risks. Additional staff and equipment levels are available when more support is required. Risks are categorized as low, moderate, high, and maximum risks for each type of emergency response provided by the Agency.

^A Authority Having Jurisdiction is the City of Kingston

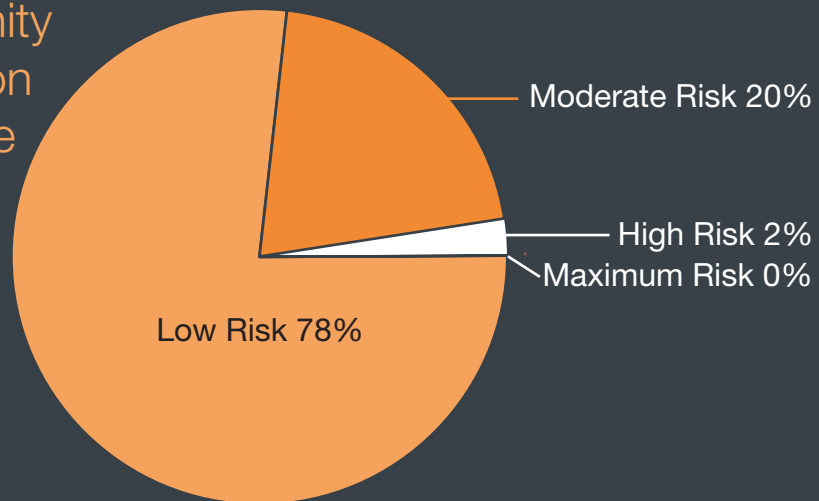
^B In this executive summary, Kingston Fire & Rescue may be referred to as the Agency.



Coverage Area

The Agency's response area covers 450 square kilometres and is divided into four geographic areas known as fire districts. Each district has fire stations that are situated to protect rural or urban areas. Rural areas have no municipally provided pressurized water source from fire hydrants versus urban areas which have a municipal source of supply. Fire station response areas are further divided into 185 geographic planning zones. Community risks (CRA) are assessed and categorized as low, moderate, high, and maximum for each zone.

Overall Community Risk Classification for the Response Area



Risk Methodology

The Agency analyzed several indicators within each planning zone to assess and categorize community risks.

The following chart illustrates the overall risk classification measure of the probability, impact, and consequence matrix in percentages for the entire Agency's Response Area using 2018-2020 response data and other risk factors.

In 2018, 2019, 2020 the Agency responded to **12,466** emergency responses.

The following chart illustrates in percentages the top responses across the area of responsibility:

Medical Emergencies	26%
Fires	17%
False Alarms	12%
Technical Rescue (includes motor vehicle collisions)	11%

Standards for Emergency Response

The Agency has standards for emergency response and non-emergency programs and services to mitigate community risks in accordance with approved programs and services provided by the Agency.

Response Time Benchmarks (Goal) Response Time Baselines (Actuals)

The following charts illustrate the Agency's summary of response time benchmarks, and 2018-2020 total baseline response times including but not limited to fire, medical, rescues, hazardous materials, aviation, and marine risks.

Urban Response (Career) 90th Percentile	Call Processing Time Benchmark	Turnout time Benchmark	Travel time Benchmark	Total Response Time Benchmark	2018-2020 Baseline Response Time
First on Scene Distribution	90 seconds	80 seconds	240 seconds	410 seconds	473 seconds
Effective Response Force Concentration	90 seconds	80 seconds	480 seconds	650 seconds	561 seconds

Urban Response (Volunteer) 90th Percentile	Call Processing Time Benchmark	Response Time Benchmark	Total Response Time Benchmark	2018-2020 Baseline Response Time
First on Scene Distribution	90 seconds	540 seconds	630 seconds	747 seconds
Effective Response Force Concentration	90 seconds	1020 seconds	1110 seconds	804 seconds

Rural Response 80th Percentile	Call Processing Time Benchmark	Response Time Benchmark	Total Response Time Benchmark	2018-2020 Baseline Response Time
First on Scene Distribution	90 seconds	840 seconds	930 seconds	791 seconds
Effective Response Force Concentration	90 seconds	1320 seconds	1410 seconds	1,058 seconds

Measures include:

- the time for the first crew to arrive (First on Scene) and apparatus,
- the total number of personnel in the crew and
- the apparatus compliment required to bring the emergency to a safe conclusion (effective response force).

Goals and Objectives

The Agency reviewed and consulted internal and external stakeholders in developing the CRA-SOC (Community Risk Assessment Standards of Cover) and Kingston Fire & Rescue's Strategic operating plan. The goals and objectives are designed to improve and strengthen program and services.

The goals and objectives arising from the above work will be reviewed annually and formally reported to the Governing Body. Every five years a new CRA-SOC will be completed using five years of historical responses and performance data.

The goals and objective versus strategic priorities will be formally presented to the Governing Body^c.

The Agency has established goals and objectives over the next five years (2021-2026) including:

- Preparing and presenting the Agency's CRA-SOC annual performance report.
- Optimizing the Agency's existing response capacity and performance.
- Establishing a formal response time and station location study to monitor incremental changes in system performance.
- Improving and updating physical resources.
- Improving baseline performance by reducing the gaps in established benchmark targets.
- Planning for new physical resources to reduce community risks for all -hazards.

The Agency will develop continuous improvement plans and response protocols to achieve the approved service benchmarks to mitigate community risks.

^cThe governing body is the Council of the City of Kingston.



Next Steps

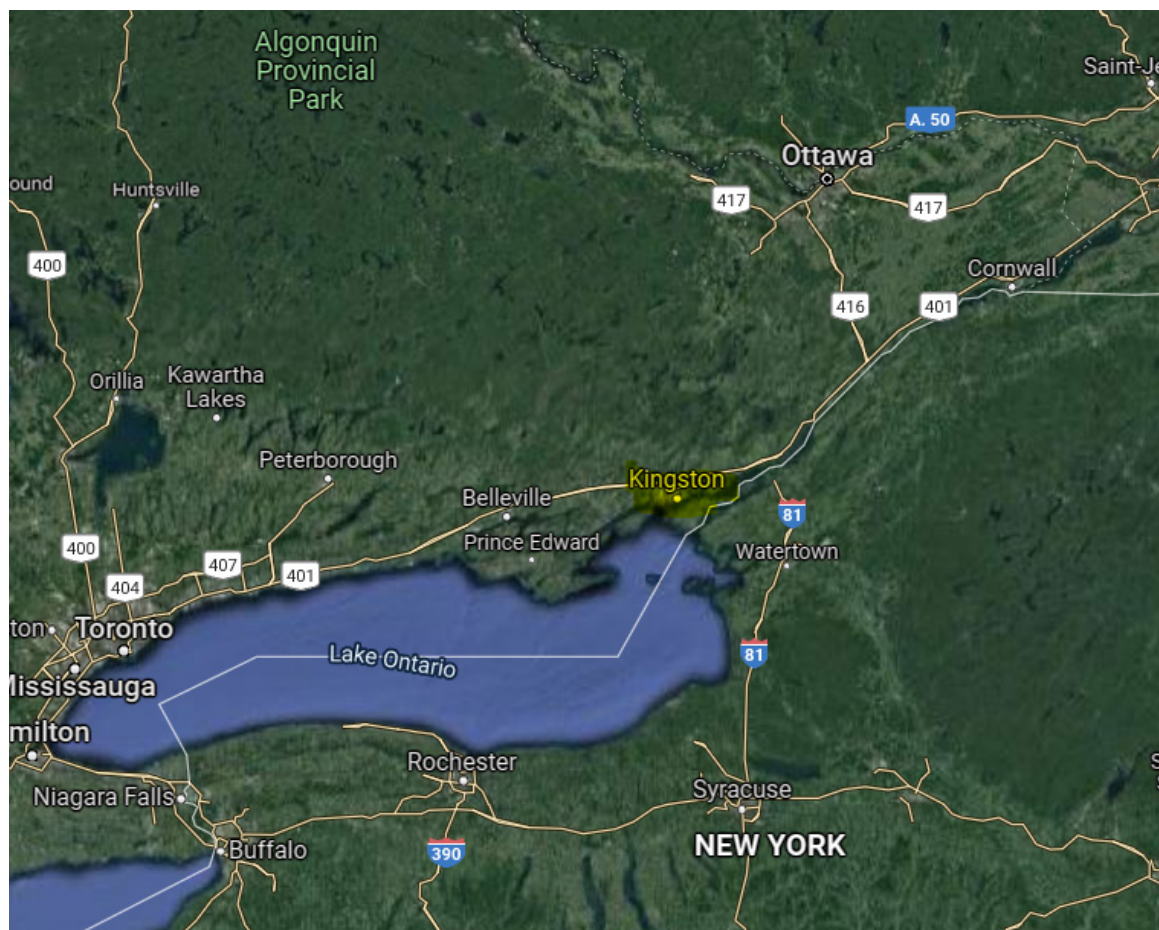
The Agency will continue to monitor and complete an annual review and present a report to Council on Kingston Fire & Rescue's progress on mitigating community risks through its program and services

We thank all residents of Kingston for their input and support in making Kingston a safe community.

Documentation of Area Characteristics

City of Kingston, Ontario, Canada – Population 124,000/ 450 Square Kilometres
The Corporation of the City of Kingston (Authority Having Jurisdiction, AHJ) is situated on the traditional homeland of the Anishinaabe, Haudenosaunee and the Huron-Wendat Indigenous Peoples. The AHJ is positioned on the north shore of Lake Ontario, the southern edge of the Canadian Shield and is situated at the head of the St. Lawrence River. The AHJ's area covers 450 square kilometres and is located 60 kilometers from the United States Border at Alexandria Bay Bridge. The Authority Having Jurisdiction is midway between Toronto, Ontario and Montreal, Quebec. The major transportation corridor has six interchanges from the King's Highway 401 into the City.

The AHJ is home to four federal penitentiaries, an international airport, five city-owned industrial parks, 39 public schools and three large post-secondary institutions. The post-secondary institutions are the Royal Military College, training a cadre of future national defense military Officers, Queens University that has both a post graduate law school and medical school and St. Lawrence Community College, an applied arts and science institution. There are three regional medical care facilities within the municipal boundary of the AHJ.



Historical Context of the modern-day City of Kingston

The modern-day City of Kingston was formed through the amalgamation of three former geo-political governance bodies.

The former Pittsburgh Township

- Originally surveyed in 1787-1788
- Incorporated on January 1, 1850
- Named after William the Pitt the Younger – A British Prime Minister
- The former Pittsburgh Township was truncated from the old City of Kingston by the Cataraqui River
- The former Pittsburgh Township was connected to the old City of Kingston downtown by the La Salle Causeway and could also be reached travelling from highway 401
- Home of Old Fort Henry, constructed for the war of 1812 between Loyalist Canada and the United States
- Home of Royal Military College, established in 1874
- Home to two federal penitentiaries, Pittsburgh and Joyceville Institutions
- Served by Pittsburgh Township Fire Department, a Volunteer Fire Department

The former Kingston Township

- Part of the Mecklenburg District formed 1788 renamed in 1792
- Settled by Loyalists under the direction of Captain Michael Grass in 1784
- Home to four federal penitentiaries
- Was one of 18 Townships in Frontenac County
- Home to Invista Canada (formerly DuPont) chemical manufacturing
- Settled by the United Empire Loyalists, Americans who retained their loyalty to the British Crown during the American Revolution
- Served by Kingston Township Fire Department, a Volunteer Fire Department

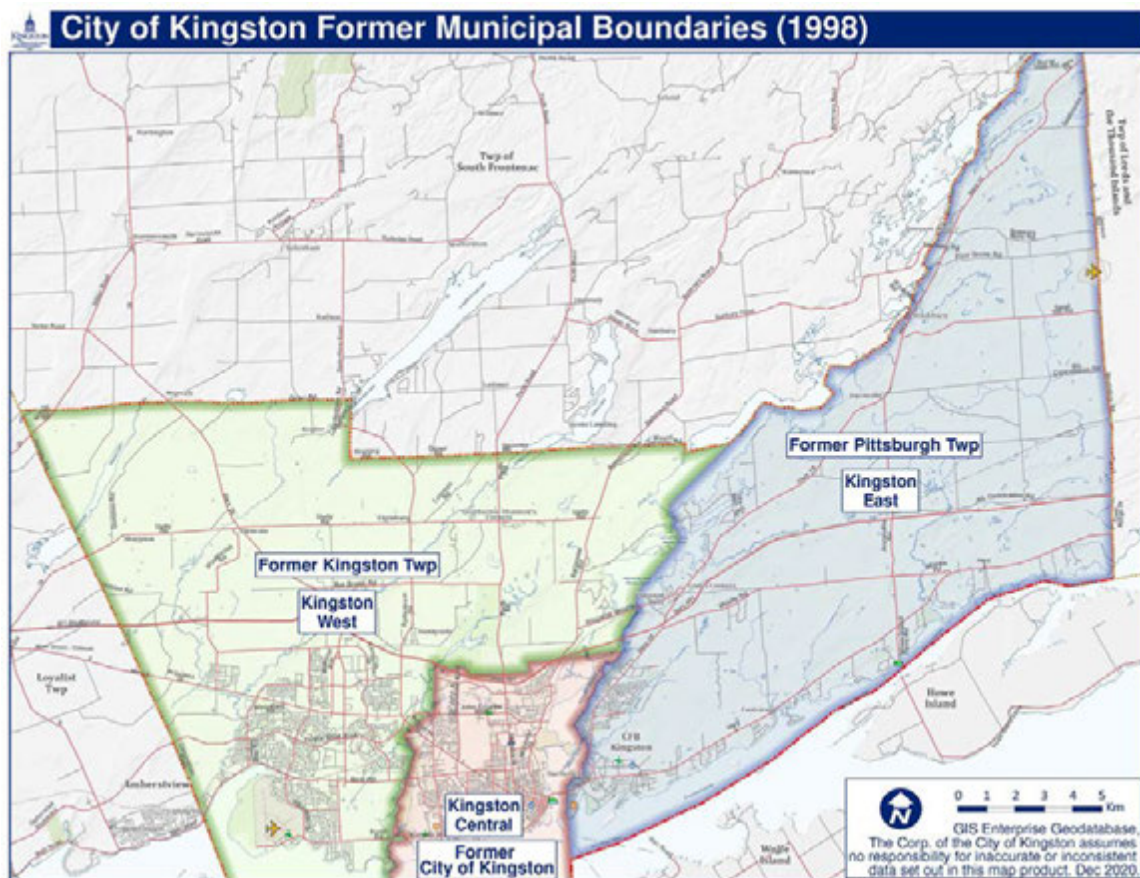
The former City of Kingston

- Known as the Limestone City because of the availability of Limestone and the many historic limestone buildings
- From 1760, the site of Kingston, Ontario, was in effective British possession
- Kingston was the first capital of Canada on February 10, 1841 and was ended on 1844 when Montreal was designated the capital.
- Kingston's original name was Cataraqui and was referred to as "Kings Town" until 1787
- In honour of King George III. The name was shortened to "Kingston" in 1788.
- Home to one of Ontario's oldest Universities, Queens University was established in 1841
- Home to the infamous Kingston Penitentiary, opened in 1835 and closed on September 30, 2013
- Had a full time Fire Department, Kingston Fire Department

On January 1, 1998 the former City of Kingston, the former Township of Pittsburgh and the former Township of Kingston and their local boards were dissolved. The three former governing bodies were amalgamated and incorporated into a new city named The Corporation of the City of Kingston (Authority Having Jurisdiction, AHJ).

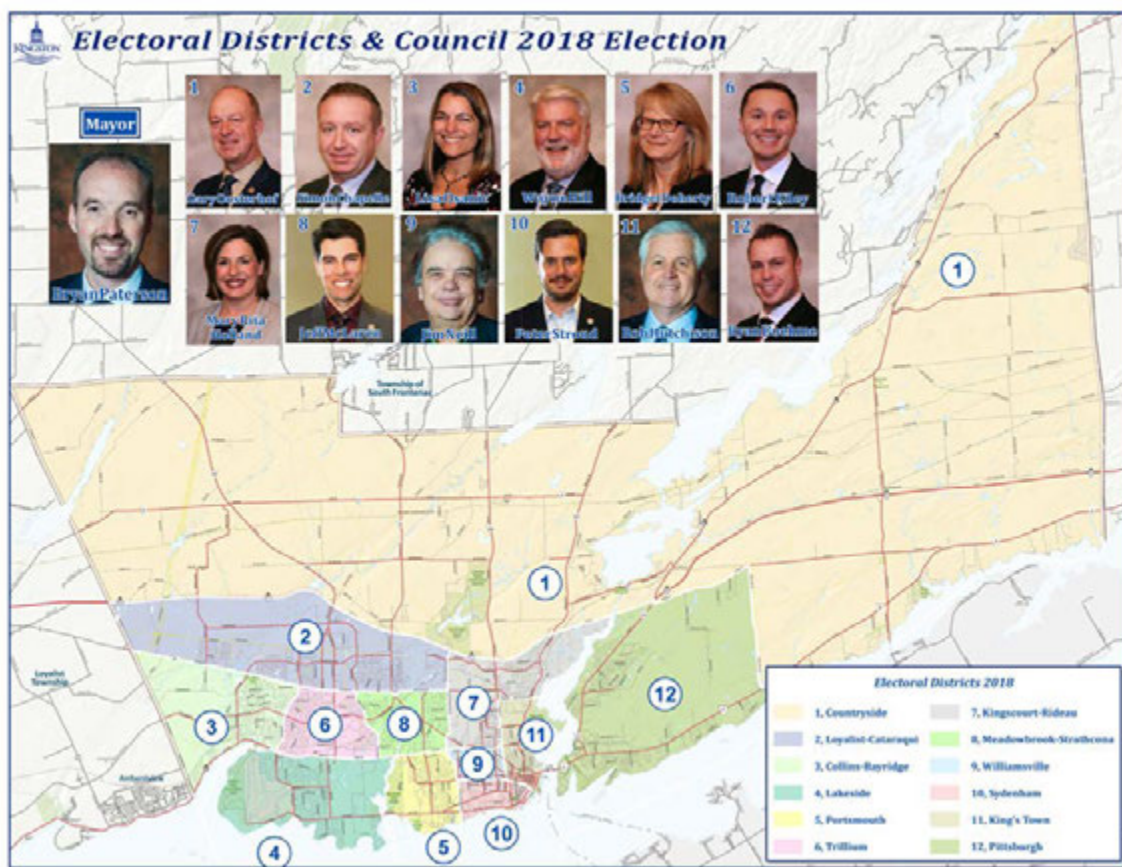
The new municipality had the legal authority to pass a By-law establishing a municipal fire department and regulate fire protection activities in accordance with the Fire Protection and Prevention Act (FPPA), 1997, Statute of Ontario, S.O. 1997 chapter 4, as amended.

The former Kingston Township Fire Department Fire Chief coordinated activities across the three former governance areas until the newly amalgamated Kingston Fire Department was formalized. On November 6, 2007 Kingston Fire & Rescue (Agency) was formalized through By-Law into a unified municipal fire service. The legal authority for the amalgamation of the three former governing bodies was carried out in accordance with the Ontario Municipal Act, Statute of Ontario, S.O. 2001, chapter 25.2 as amended.



Kingston City Council (Governing Body) comprised of a Mayor and twelve Councillors. The Mayor and Councillors are elected for a four-year term. The current Council began its term on December 1, 2018.

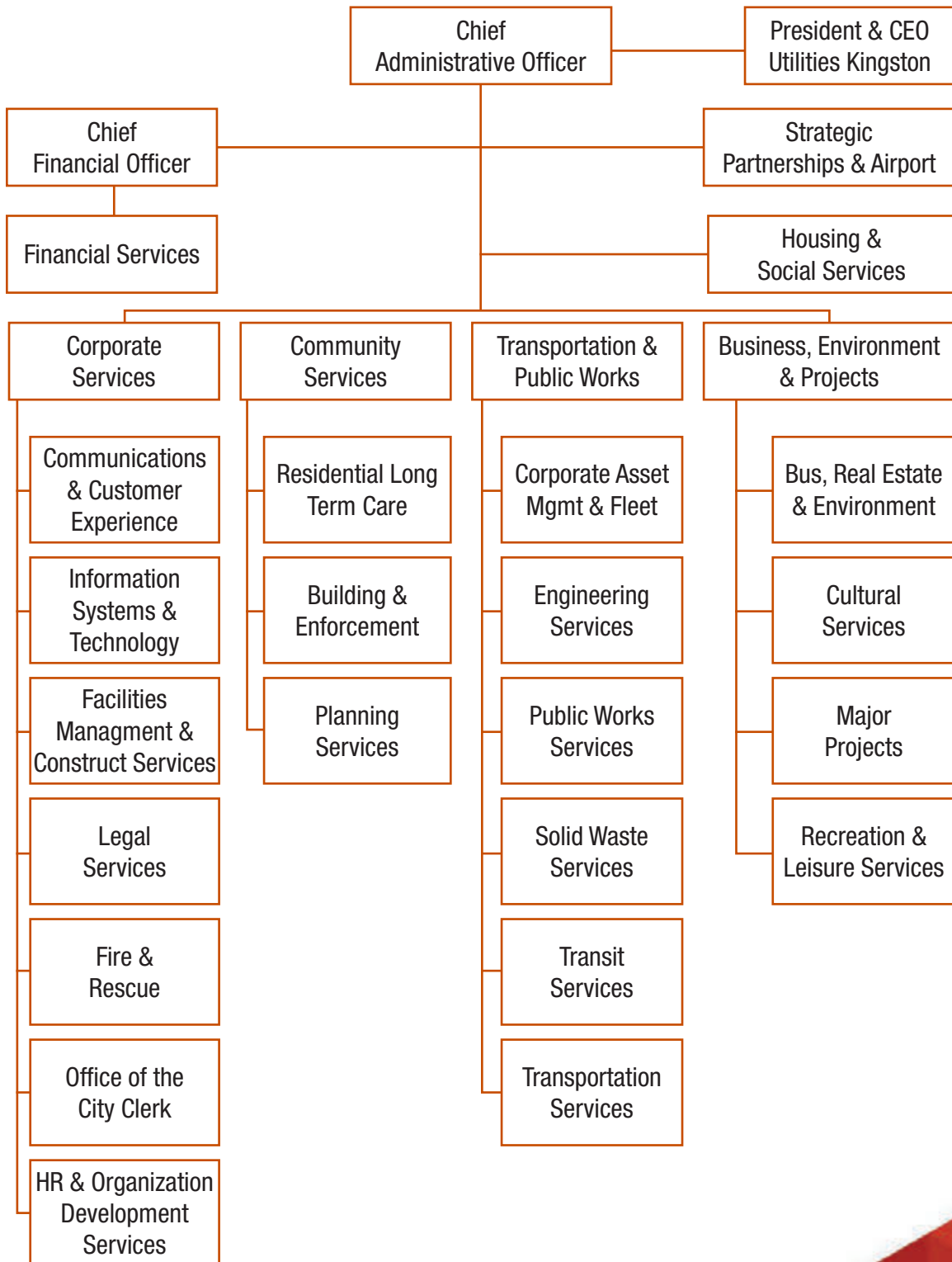
The following organizational chart represents the current Mayor and twelve Councillors who serve their constituents in each electoral district. The City of Kingston Municipal Organization – Authority Having Jurisdiction, AHJ



The AHJ service groups, led by the City’s Corporate Management Team (CMT) has distinct, but inter-connected purposes. The AHJ provides services that reflect its corporate values of teamwork, respect, integrity, and pride. The following is the Municipal Organizational Chart for the Authority Having

Jurisdiction

The Agency is part of the Corporate Services group. This service group



is comprised of one front-line service department, the Agency, and five departments that provide various corporate support services to AHJ departments. The Corporate Services group is comprised of the Commissioner's Office, Human Resources & Organization Development, Facilities Management & Construction Services, Office of the City Solicitor (Legal Services), Office of the City Clerk, Information Systems & Technology, Kingston Fire & Rescue and Communications & Customer Experience

By-Law No. 2007-193 established one fire service known as Kingston Fire & Rescue and legally authorized the Agency to deliver fire protection services within the AHJ's municipal boundary. This Bylaw further permitted the provision of fire protection services outside of the municipality under the City of Kingston, County of Frontenac, County of Lennox, and Addington (KFL&A) Mutual Aid Program. The Agency develops and maintains external relationships that support its mission, operations and/or cost-effectiveness through Automatic Aid Agreements, the KFL&A Mutual Aid Plan and Fire Dispatch Services Agreements. The Agency participates in an Automatic Aid agreement between the AHJ and the Corporation of the Township of Leeds and the Thousand Islands (Leeds) for emergency responses to a defined area of Highway 401 within each of the respective municipalities.

The Agency is currently authorized under the AHJ's Fire Services By-law 2021-91 as a composite department, made up of 291 full-time and volunteer personnel. The Agency works with the AHJ with an established and prescribed recruitment mechanism to post for entry level positions when a vacancy occurs within the Agency. The Agency has a prescribed and transparent processes for lateral or promotional positions to a higher rank classification. The Agency follows the AHJ's recruitment Job Requisition Approval Request process for all projected position vacancies for both full time and volunteer Agency members to maintain approved staffing levels for service program goals and objectives. The Agency is one of 441 legally established fire departments in Ontario. This includes 32 large municipal services consisting of full-time fire personnel, 215 composite fire departments, and 194 small municipal fire services made up solely of volunteers. The Agency is authorized through this By-law to deliver its programs, services and standards of cover. The By-law further establishes

the requirement for the Agency to notify the AHJ of any gaps in its current capabilities or changes in the community risk assessment, standards of cover. The Agency has a current and published operating plan for its 2019-2023 key strategic initiatives which was submitted to the Authority Having Jurisdiction in 2018.

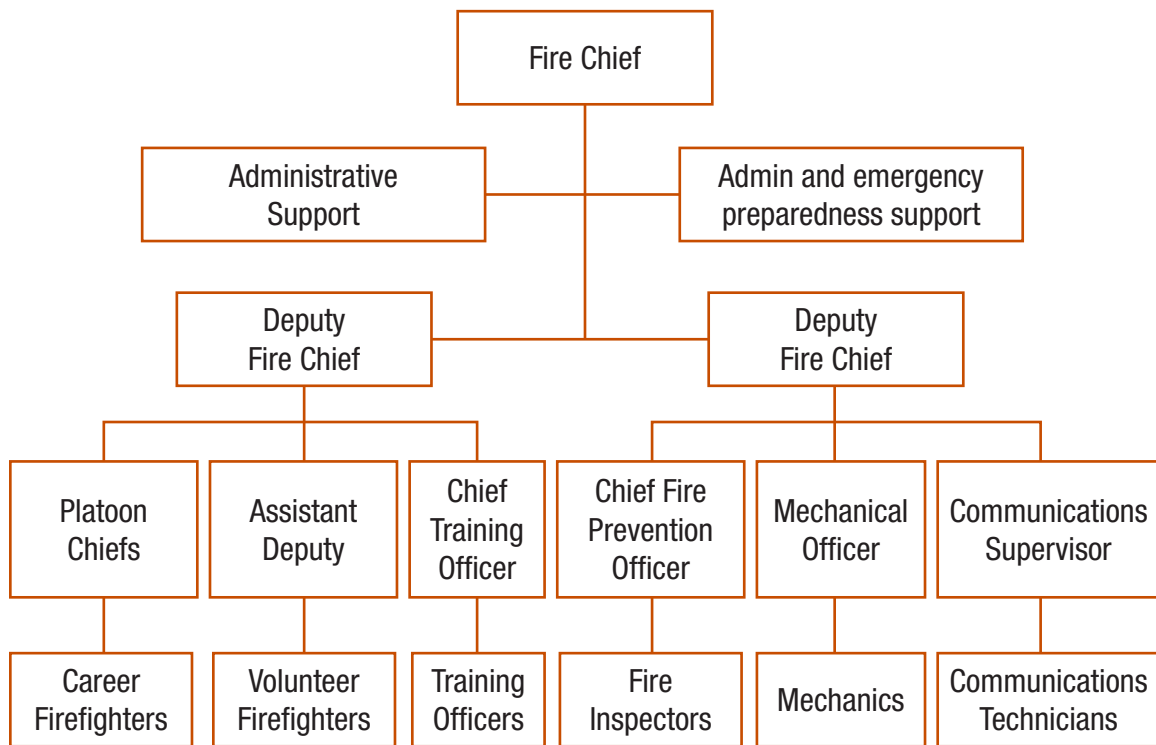
The Agency researches, evaluates and considers all types of functional relationships that may aid in the achievement of its goals and objectives. The Agency has functional relationships with AHJ departments that provide services such as legal, information systems and technology, continuous water supply, traffic preemption systems, and facilities management and construction. The Agency collaborates with identified departments within the AHJ to establish resource requirements

The Agency facilities, including the ten fire stations comply with all applicable codes, standards, by-laws, and capital budget plans. Facilities are inspected regularly by the Joint Occupational Safety Committee members and any deficiencies that may arise are identified and corrected. The Agency works with the AHJ's Facilities Management & Construction Services department to establish specific program requirements so that new facilities and major renovations will adequately meet functional objectives. The Agency works with FMCS to establish the Agency's requirement throughout all design and project phases for new or renovated facilities.

The Agency is a public sector organization and utilizes the AHJ's IT data governance models to provide clarity regarding roles and responsibilities, and accountability for decision making that is integrated into the AHJ information systems and technologies. Data sets are provided in accurate formats and publicly provided by the AHJ to promote and foster open government principles including, innovation, transparency and accountability. The AHJ shares a range of data through an open government portal. Datasets are provided in multiple formats by the AHJ. Data shared by the Agency is an important component in supporting Agency programs and services in a transparent manner. The AHJ has a current Cyber Security Risk Management policy in place that communicates the AHJ's commitment to managing information security risks in accordance

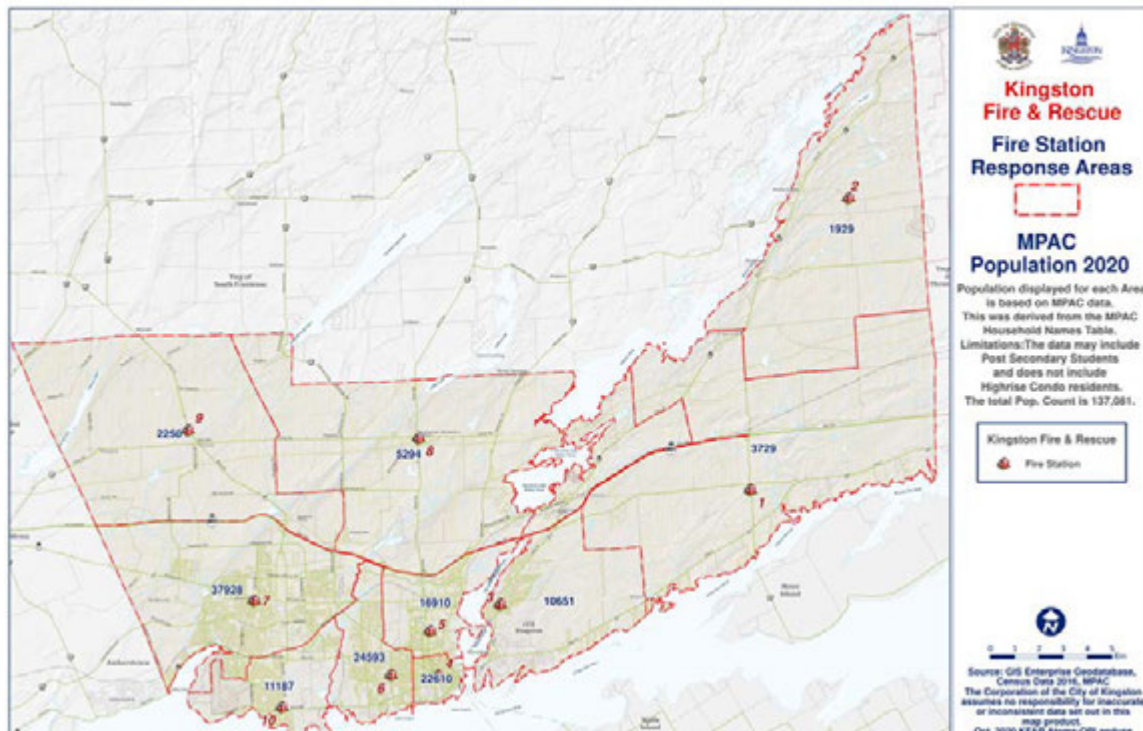
with applicable regulations. Information security activities focuses on the technology being used and the administration and operational practices of all information, data, and processing resources utilized by AHJ.

The following is the Organizational Chart for the Agency:
The Agency provides programs and services within the boundaries as illustrated



on the map of the Authority Having Jurisdiction below.

Operating and Capital Expenditures

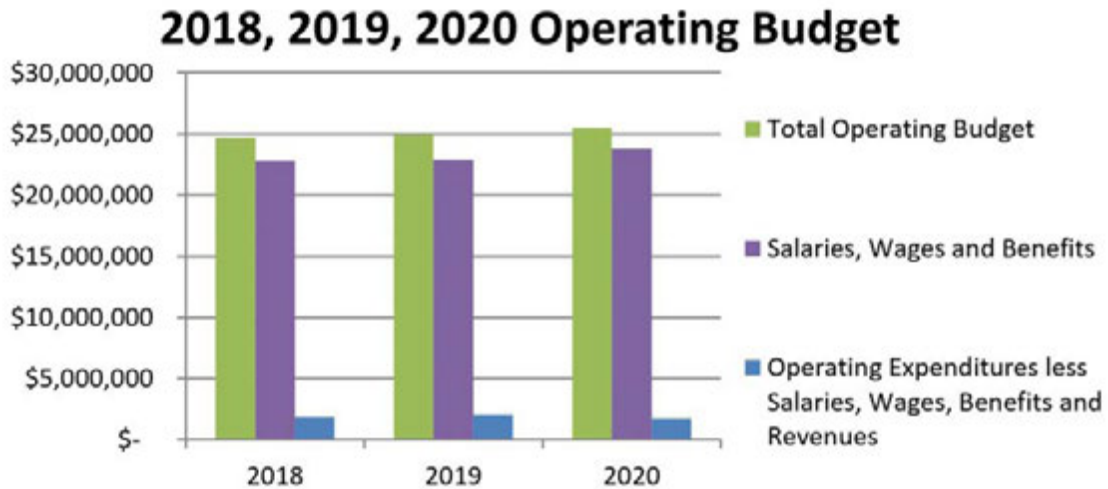


The Authority Having Jurisdiction develops an annual operating budget to pay for a wide range of municipal services including fire protection services, roads and parks maintenance, recreation programs, solid waste, transit, policing, and library services. The AHJ prepares annual multi-year capital budgets which fund capital infrastructure replacement and renewal and other capital priorities as determined by Governing Body. The AHJ has a comprehensive technology plan to update, evaluate and procure hardware and software to support the Agency's service delivery. The 15 year Capital budget forecast is in place to support the plan's funding and reviewed, updated and approved annually. The Agency's annual operating and capital budget submissions are posted publicly which reflect resourcing requirements and updates the community through the Governing Body regarding Agency goals and objectives.

The annual operating budget determines the revenues required from property taxation which are then used to set final tax rates. The capital budget submissions reflect physical resourcing requirements and initiatives that will assist in supporting the various departments within the AHJ. The capital budgets are funded by non-tax revenues, (debentures) user fees from other municipalities, transfers from reserve and reserve funds.

The following chart illustrates the Agency's 2018, 2019 and 2020 Operating budgets.

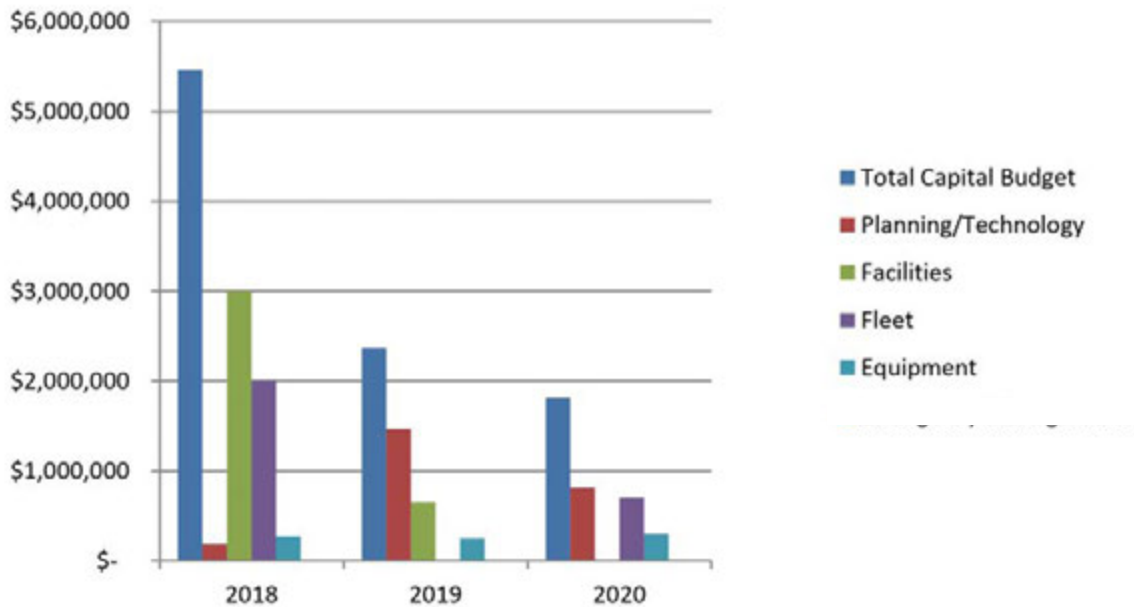
	2018	2019	2020
Total Operating Budget	\$24,676,998	\$24,935,983	\$25,531,560
Salaries, Wages and Benefits	\$22,811,309	\$22,904,545	\$23,770,799



	2018	2019	2020
Operating Expenditures less Salaries, Wages, Benefits and Revenues	\$1,865,688	\$2,031,438	\$1,760,761

The following chart illustrates the Agency's 2018, 2019 and 2020 Capital budgets:

2018, 2019, 2020 Capital Budget



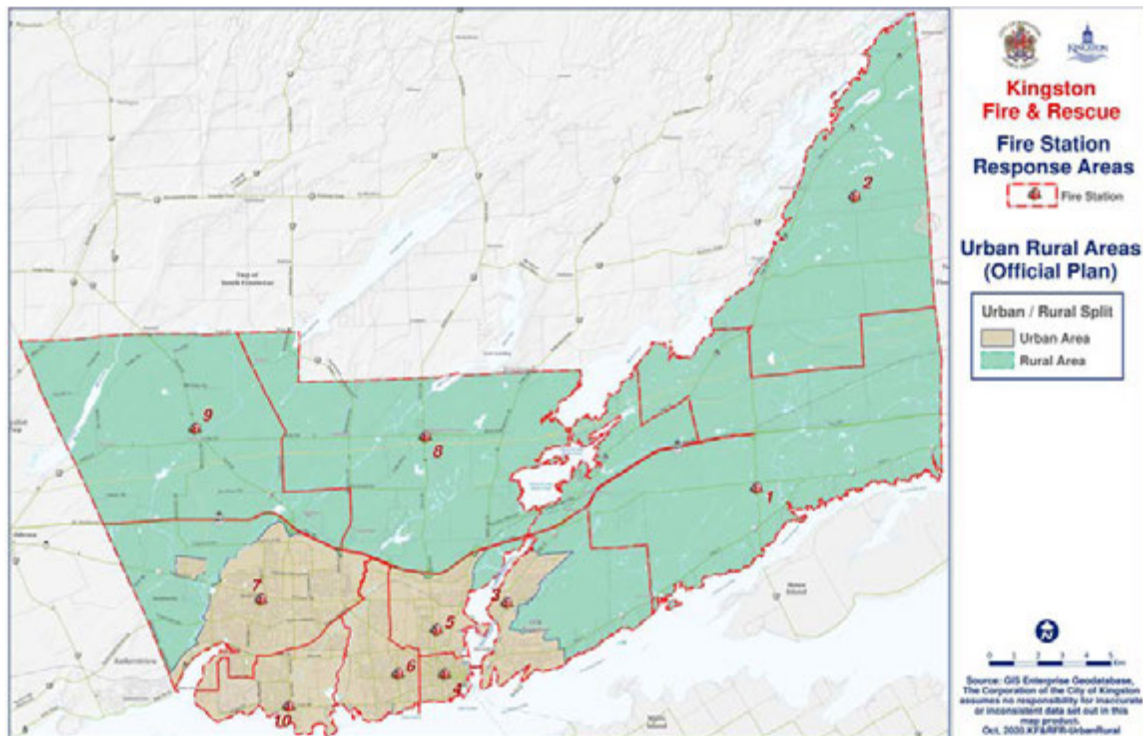
	2018	2019	2020
Total Capital Budget	\$5,460,000	\$2,365,000	\$1,815,000
Planning/Technology	\$185,000	\$1,465,000	\$815,000
Facilities	\$3,000,000	\$650,000	\$ -
Fleet	\$2,000,000	\$ -	\$700,000
Equipment	\$275,000	\$250,000	\$300,000

Authority Having Jurisdiction Demographic Information

Understanding the AHJ's population attributes assist the Agency in providing focused fire prevention and public education strategies.

The current population of the amalgamated Authority Having Jurisdiction (AHJ) is 124,000 with a median age of 42 years. The AHJ accommodates an annual additional of 20,000+ post-secondary student residents as well as the annual tourism trade. 92% of the population is situated within the defined urban area yet 81% of the Kingston's acreage is rural.

The following map illustrates the urban and rural areas and population within the



AHJ

The Agency follows the AHJ's guiding principles and provides approved programs and services equitably across the urban and rural areas of the AHJ based on an all hazards approach to mitigate risk.

The AHJ has traditionally been considered a top destination for affluent retirees being the ninth best community to retire in Canada (MacLean's' Magazine). At present, the city is attracting a much younger crowd.

Post-secondary students arrive annually to pursue studies are now joined by a growing number of professionals who leave larger urban areas in search of great careers and affordable homes. Recognizing the cultural and economic value of a diverse population, the Authority Having Jurisdiction is implementing numerous initiatives designed to engage talent from diverse backgrounds.

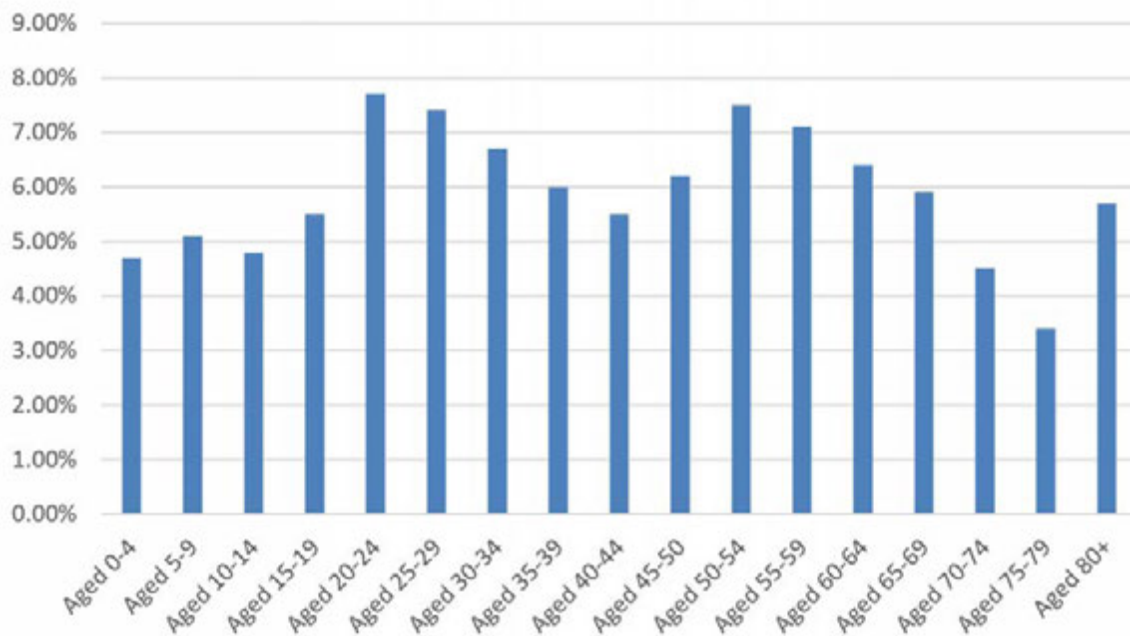
The total number of AHJ residents that are employed totals 58,710 whereas the number of individuals that commute for employment either from within the AHJ or other places totals 64,885.

The following chart illustrates the most common commute flow data for those are employed within the AHJ:

Place of residence	Place of work	Employed Labour Force	
Kingston, Ontario (AHJ)	Kingston, Ontario	44,890	69.2%
South Frontenac, Township, Ontario	Kingston, Ontario	5,815	9.0%
Loyalist Township, Ontario	Kingston, Ontario	4,750	7.3%
Greater Napanee, Ontario	Kingston, Ontario	1,490	2.3%
Stone Mills, Ontario	Kingston, Ontario	1,385	2.1%

The following graph illustrates the population age groups within the Authority

2016 AHJ Population Age Groups

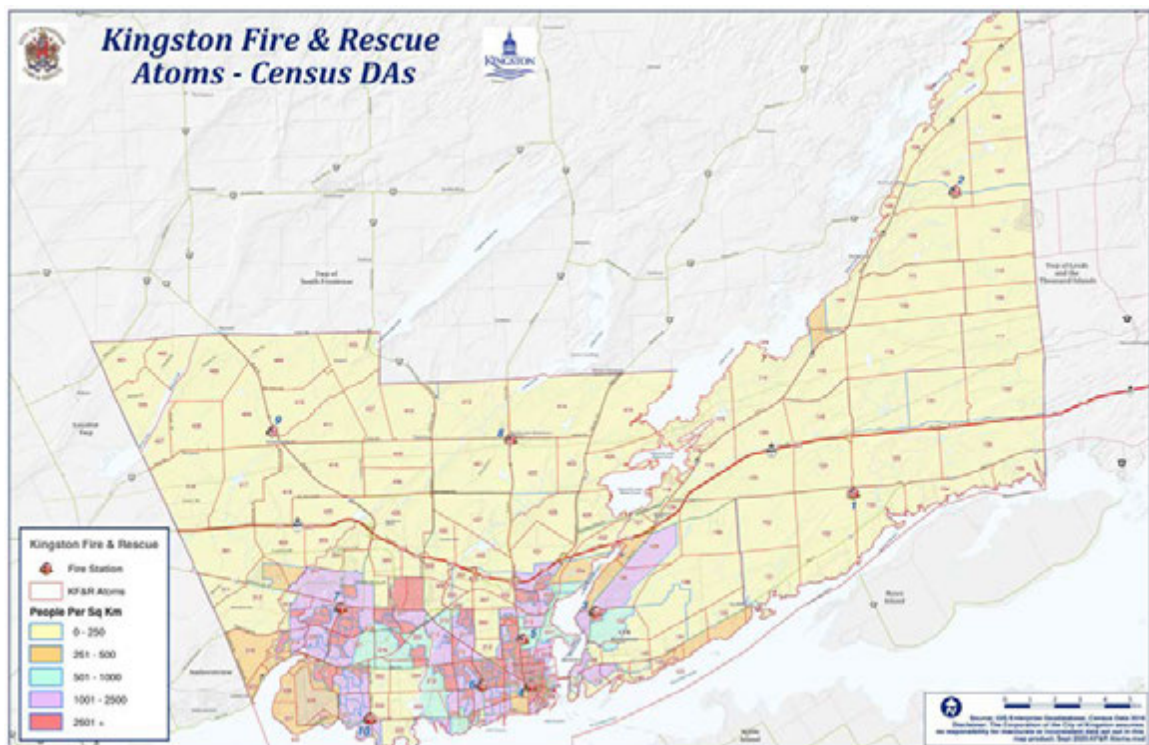


Having Jurisdiction's area.

92% of the population in the Authority Having Jurisdiction speaks English most often at home. Another 2% of the population speaks French most often at home, while the remaining 6% of the population speaks an unofficial language most often at home.

There are 15,840 immigrants within the Authority Having Jurisdiction, or about 13.2% of the population. 1,630 immigrants have arrived between 2011-2016.

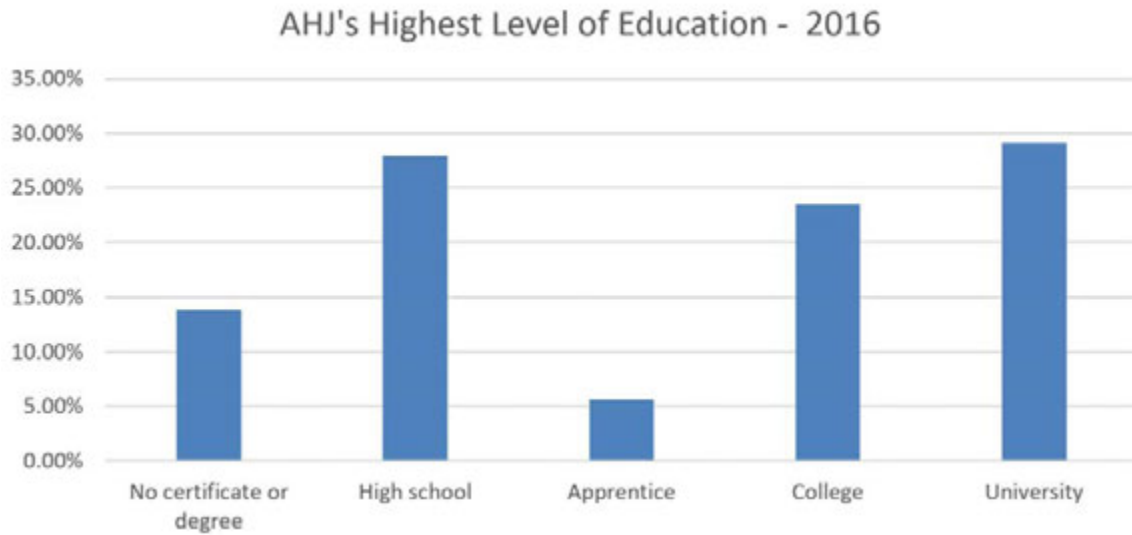
The following map illustrates the Census Dissemination Area's (DA) per square



Since 2018, the AHJ identified an increase in its vulnerable population, with approximately 150-200 persons experiencing homelessness or at risk of homelessness suffering from mental health and addictions. The Agency works collaboratively with the AHJ's Housing and Social Services on harm reduction strategies to support fire and life safety for vulnerable populations across the area of responsibility.

kilometre within the Authority Having Jurisdiction's area.

The following graph illustrates the 2016 highest level of education within the AHJ identifying that the AHJ has 60% having a high a level of post-secondary

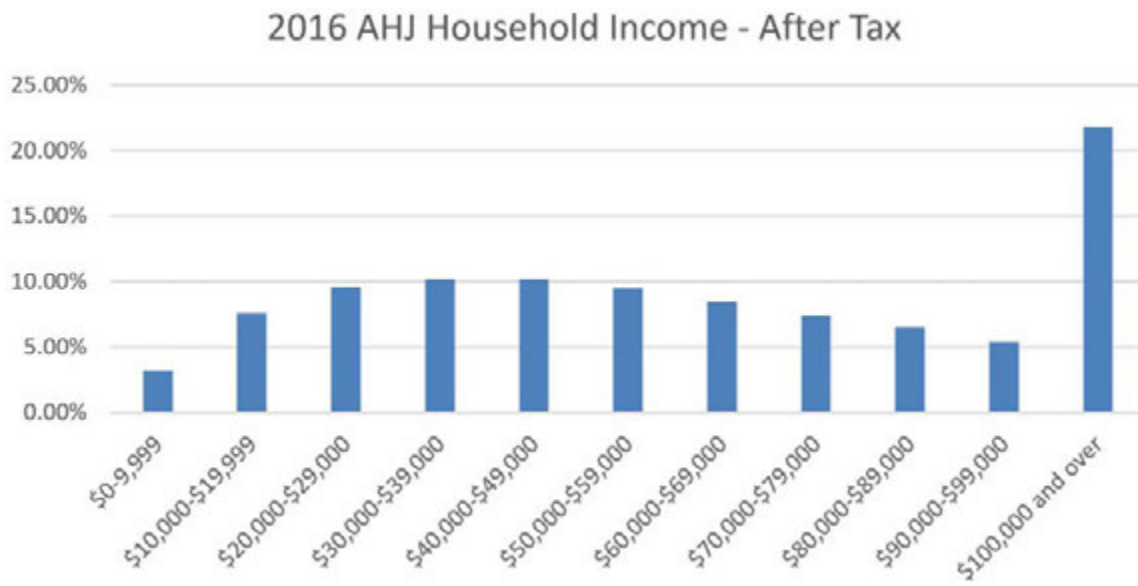


education.

Economy

The AHJ sustains a diversified economy that includes global corporations, innovative startups, and all levels of government. The AHJ's high quality of life offers access to world-class education, research institutions, advanced healthcare facilities, affordable living, and vibrant entertainment.

The following graph illustrates the 2016 after tax household income within the AHJ.

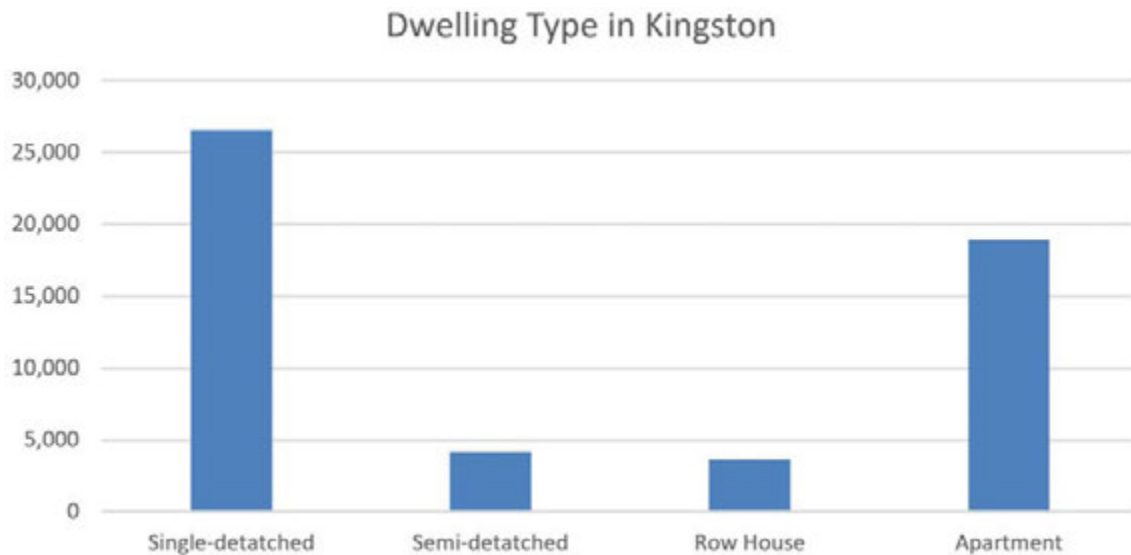


Land Use and Future Development

Understanding land use development assists the Agency in focusing fire prevention and response strategies.

On average 590 residential units have been built each year for the last 10 years. The Authority Having Jurisdiction's vacancy rate in 2019 was 1.9%. The AHJ has a target to develop 120 secondary suites, (apartments within existing housing units) by 2022. The Agency is monitoring this target through the AHJ's planning and development application process.

The following chart illustrates the Dwelling Types within the Authority Having Jurisdiction



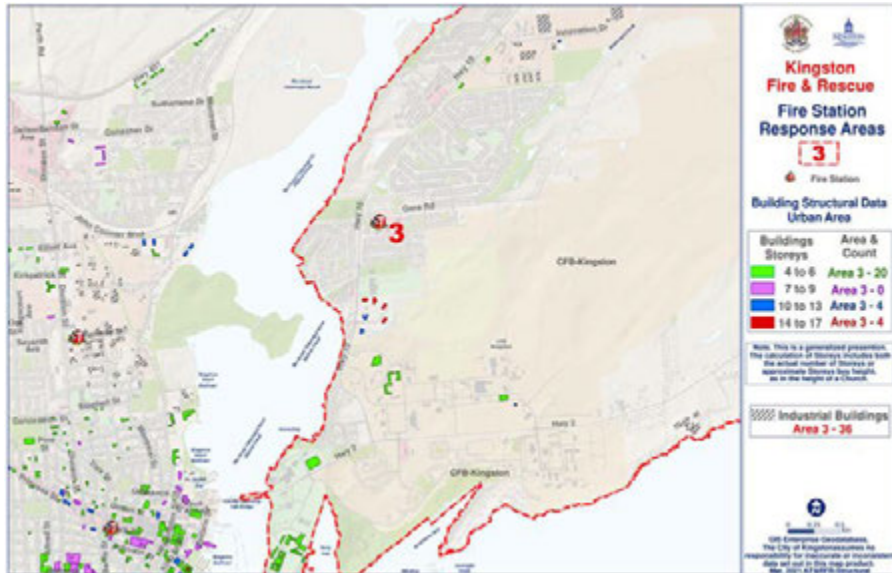
Dwelling type informs the Agency on the structural characteristics of the occupancy and assists in determining the life safety risks.

- Single detached – a single dwelling not attached to any other dwelling or structure. It has open space on all sides and has no dwellings either above it or below it.
- Semi-detached – one of two dwellings attached side by side of each other, but not to any other dwelling or structure. It has no dwellings above or below it.
- Row house – one of three or more dwellings joined side by side, which as a town house, but not having any other dwellings above or below
- Apartment – dwelling units attached to other dwelling units, may be high rise or low rise.

Within the AHJ, there is a total of 61 vulnerable occupancies and care facilities, 303 low-rise apartment dwellings, 74 mid-rise apartment dwellings, 62 high-rise apartment dwellings and 471 industrial buildings.

[Reference for census profiles](#)

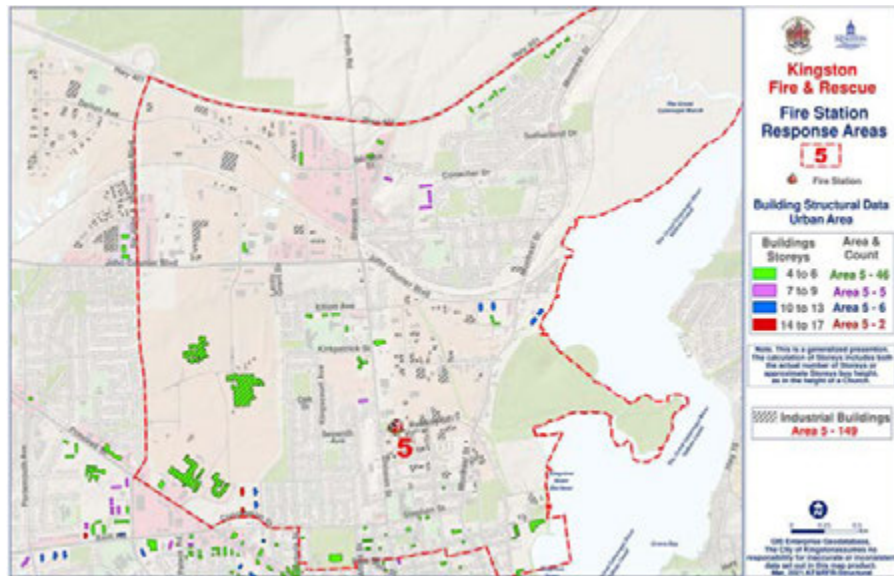
The following map illustrates the industrial, low, mid, and high rise building structural data within Fire Station Response Area #3



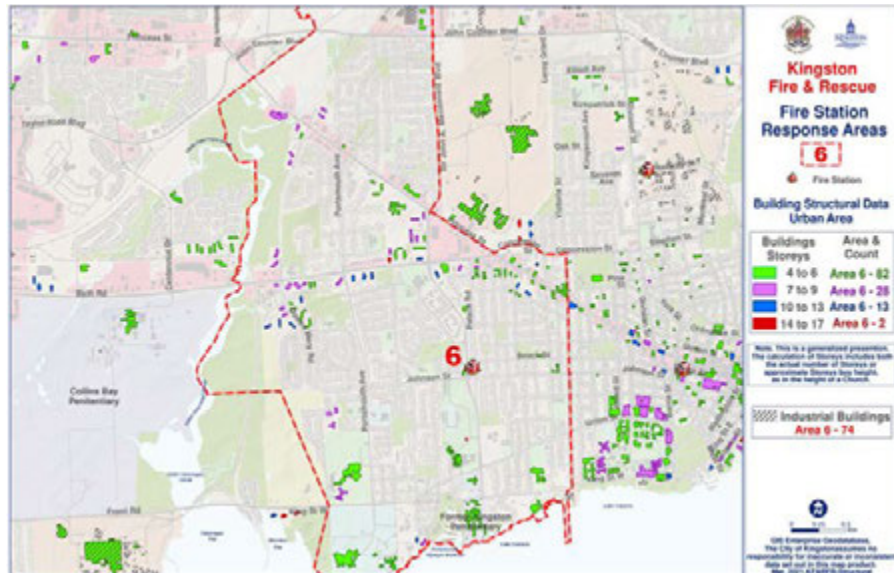
The following map illustrates the industrial, low, mid, and high rise building structural data within Fire Station Response Area #4



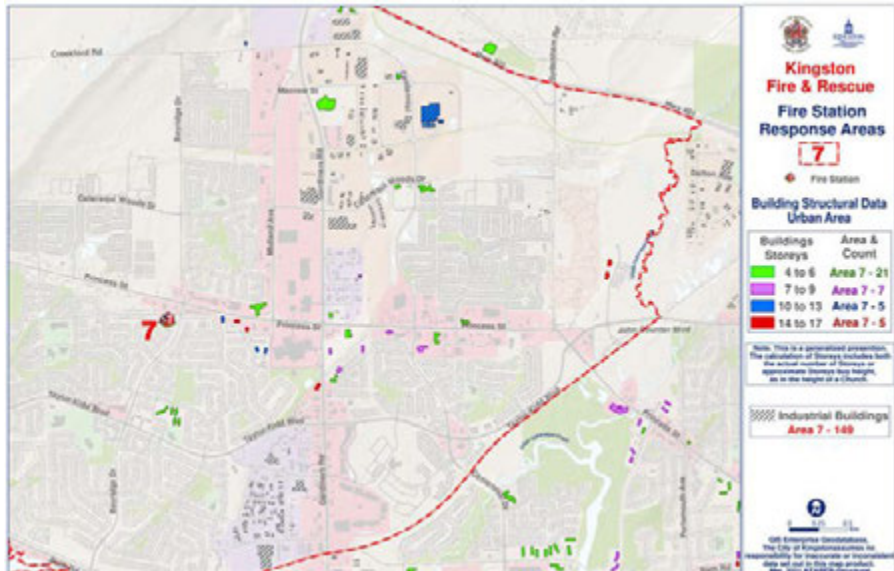
The following map illustrates the industrial, low, mid, and high rise building structural data within Fire Station Response Area #5



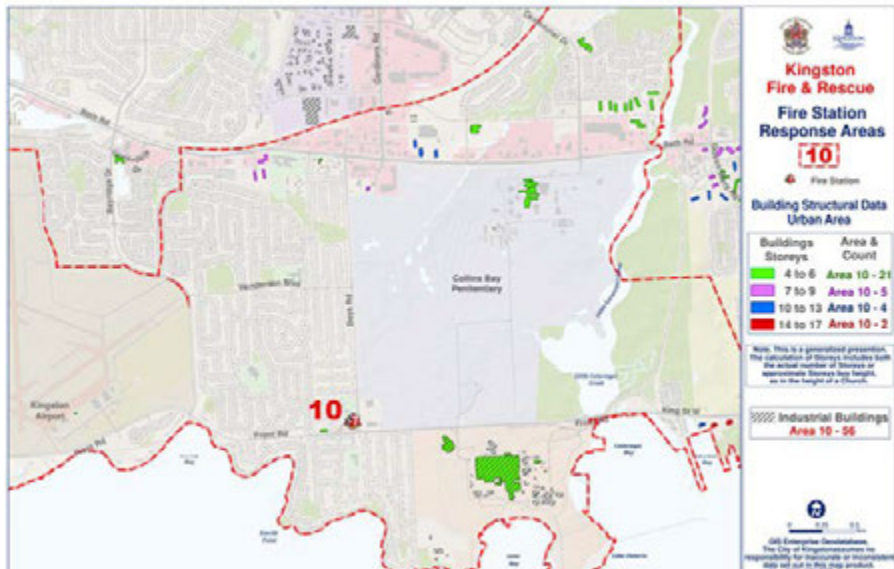
The following map illustrates the industrial, low, mid, and high rise building structural data within Fire Station Response Area #6



The following map illustrates the industrial, low, mid, and high rise building structural data within Fire Station Response Area #7



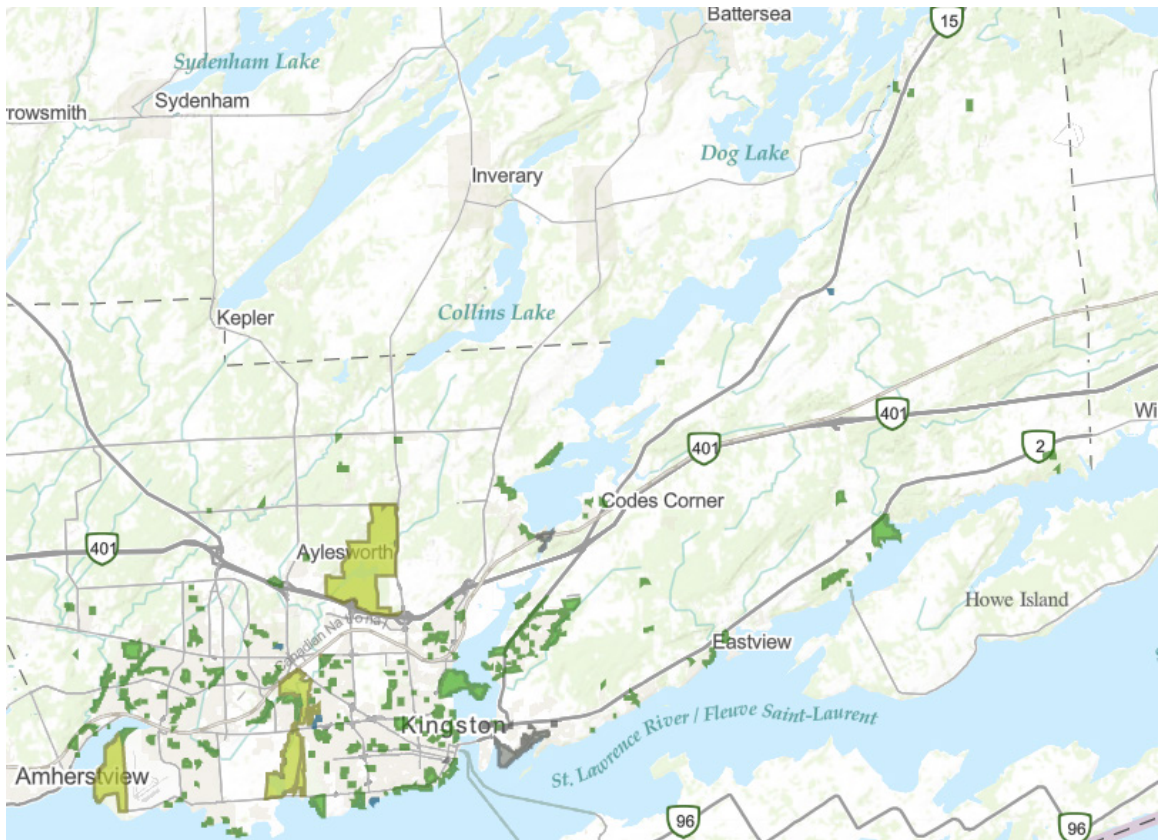
The following map illustrates the industrial, low, mid, and high rise building structural data within Fire Station Response Area #10



Parks & Recreational Lands

The AHJ is one of the most sustainable cities in Canada, and takes pride in the urban green spaces, parklands, and swimmable, drinkable, fishable water. Understanding the unique geographical features and response challenges across the AHJ assists the Agency in developing risk mitigation strategies for fire and life safety in an around the AHJ's parks and recreational lands.

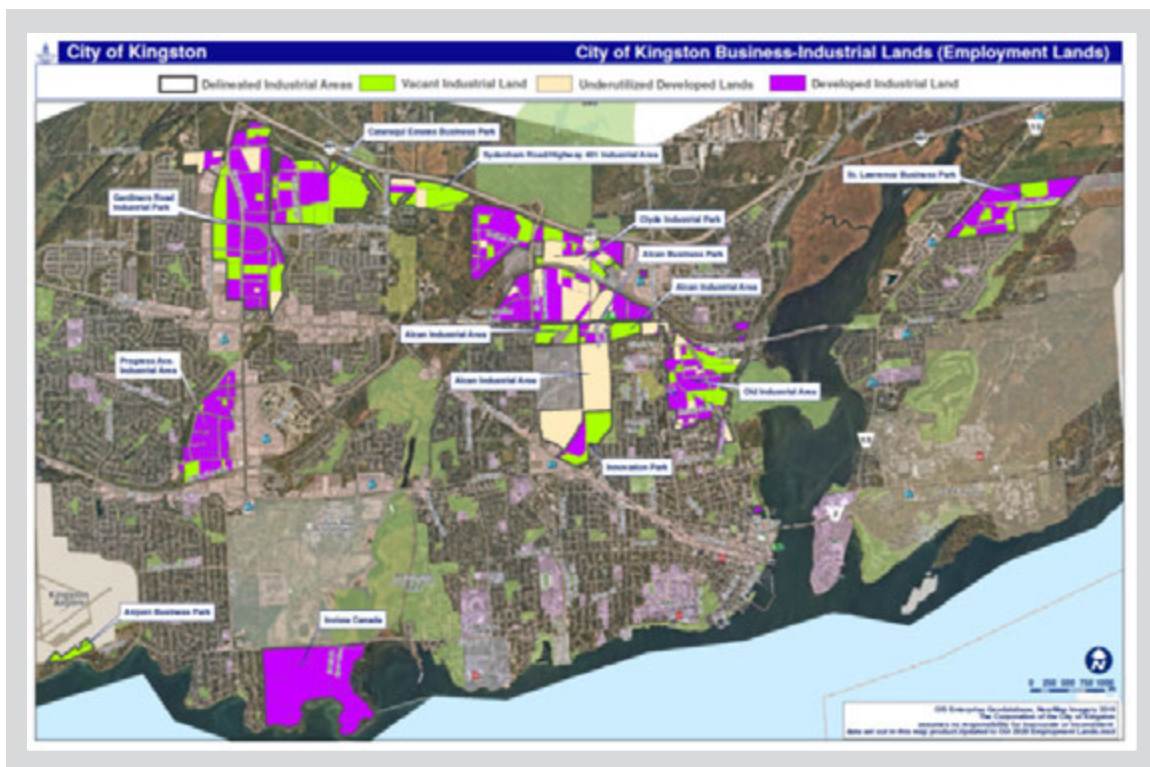
The following map illustrates the parks within the urban area of the Authority Having Jurisdiction.



Business/Industrial Lands

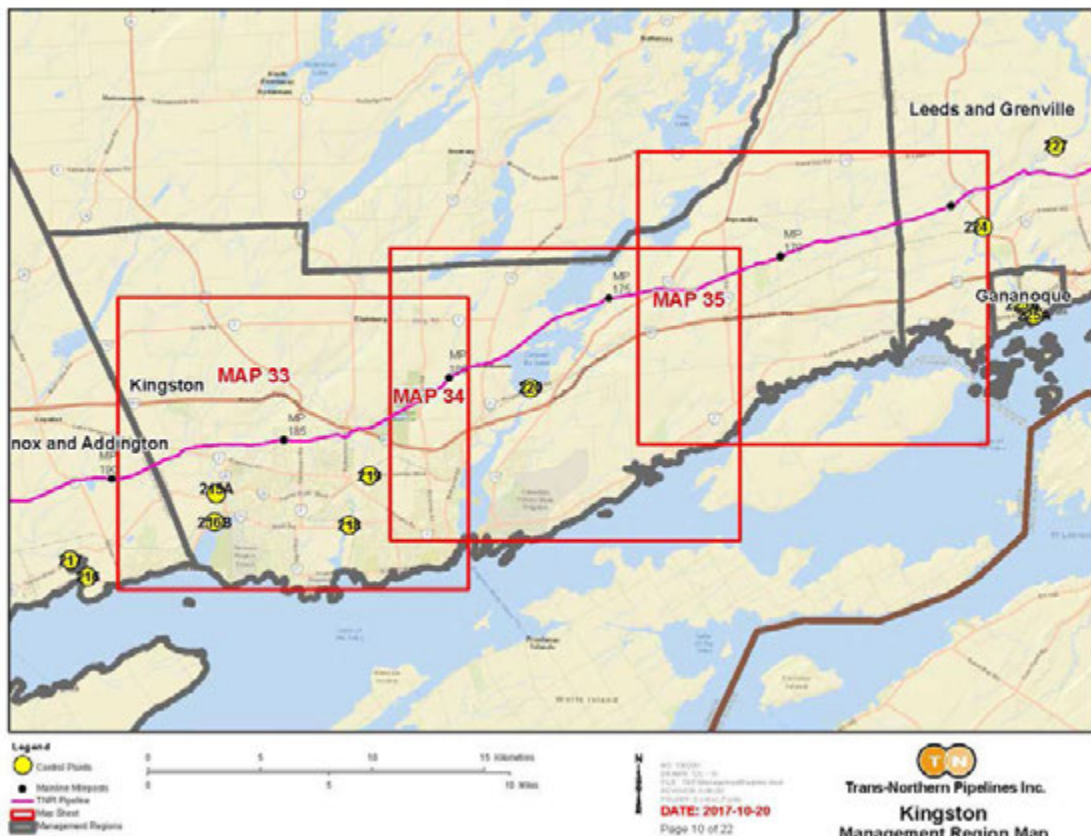
Areas defined for business-industrial use within the AHJ's boundaries assist the Agency in categorizing current and future risks for business and industrial occupancy types.

The following map illustrates the Authority Having Jurisdiction's defined Business-Industrial lands, identifying vacant industrial lands, developed industrial lands and under-utilized industrial lands.

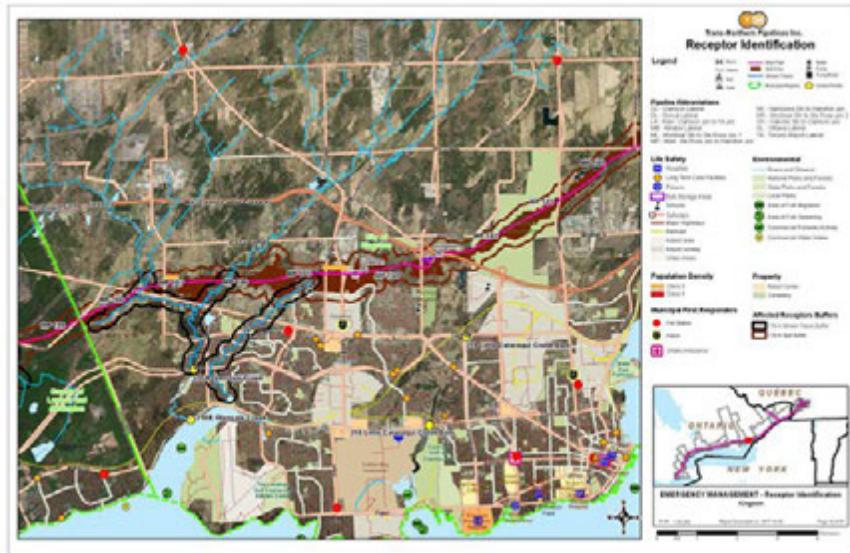


Pipelines and railways are located in an east/west direction through the AHJ. The King's Highway 401, Canadian National Railway, (CNR) and the three separate petroleum pipelines cut through the AHJ's geography running east/west across the municipal boundary. The Great Cataraqui River flows north/south through Kingston.

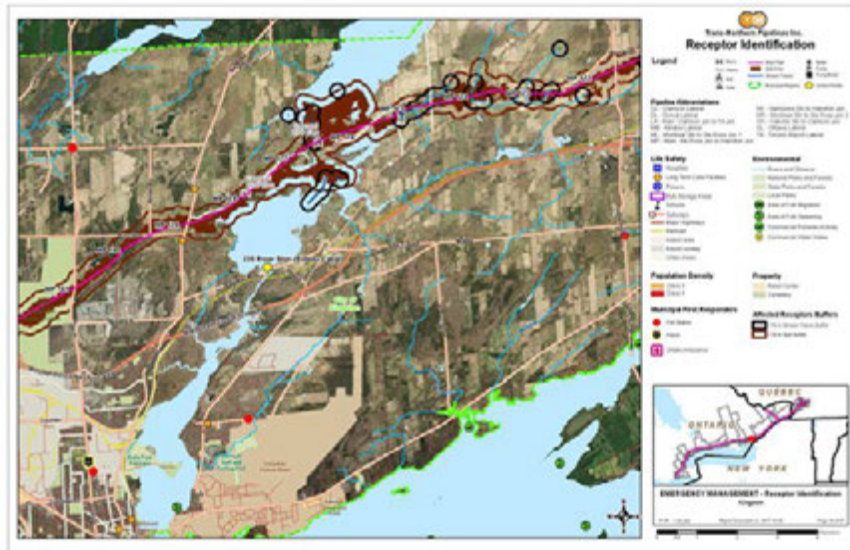
The following map illustrates the location of Highway 401 and the Trans-Northern Pipeline through the AHJ's area of responsibility. Understanding and identifying critical infrastructure assist the Agency in planning preparedness and risk mitigation strategies.



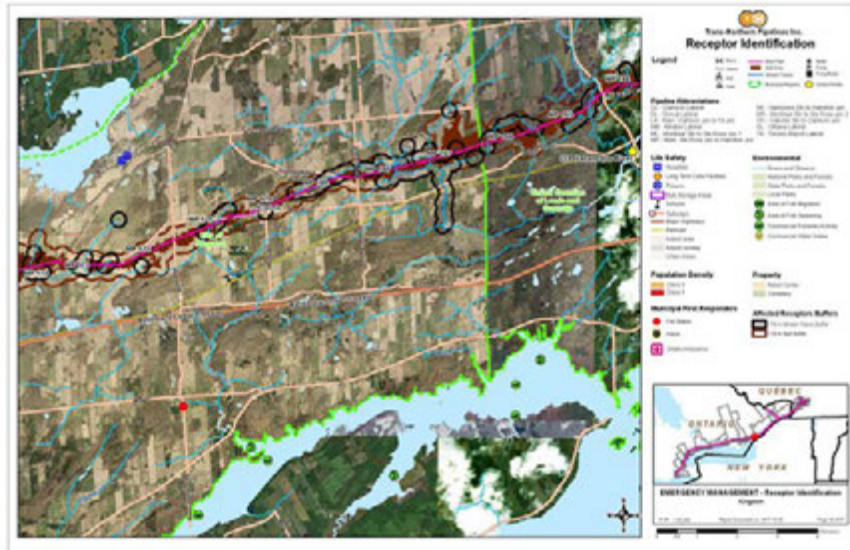
The following map illustrates the details of Trans Northern Pipeline migrating through Map 33 area:



The following map illustrates the details of Trans Northern Pipeline migrating through Map 34 area:



The following map illustrates the details of Trans Northern Pipeline migrating through Map 35 area:



Airport

The AHJ owns Kingston International Airport (YGK). The YGK Airport supports regional airlines with connecting flights for international air travel. The following map illustrates the location of YGK and identified areas used for emergency response to the airport and aerodrome lands. The Agency has formal response plans for Aviation emergencies and coordinates with Airport officials in a unified response.



Climate & Environment

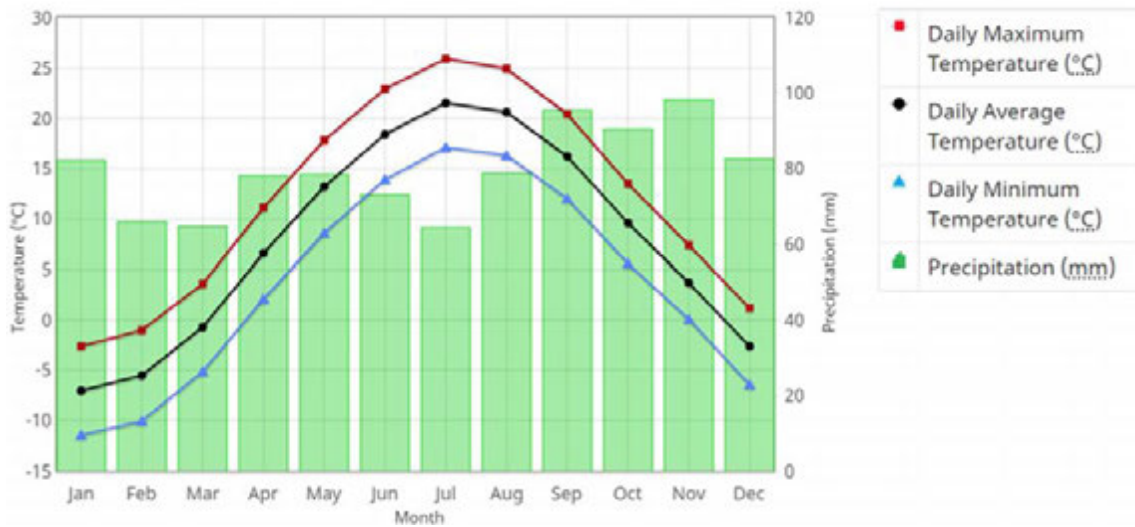
In 2019 the Governing Body formally declared a state of emergency for the purposes of “naming, framing and deepening our commitment to protecting our economy, our ecosystems and our community from climate change.”

Understanding and identifying weather systems within the AHJ assists the Agency in planning preparedness and risk mitigation strategies for severe weather impacts. The Authority Having Jurisdiction, AHJ has a diverse weather system with four distinct seasons. Weather systems include extreme heat and cold periods throughout the year and consistently windy conditions.

Lake Ontario has a moderating impact on the weather, tempering the summer heat and occasionally increasing precipitation. The impacts of climate change have increased the frequency of severe weather events causing Lake Ontario water levels to rise above normative conditions more often causing shoreline flooding and erosion. This can negatively affect waterfront parks, amenities, properties and marine infrastructure. Climate change impacts can cause disruption to municipal services like transit and active transportation infrastructure, water, wastewater treatment processes, and telecommunications networks.

Demonstrating leadership on climate action has been identified as one of the AHJ’s five strategic priorities. To prevent and reduce the consequences of climate-related hazards, the AHJ and the Agency must plan for changing risks resulting from localized climate impacts such as power outages, flooding, fires and disruptions to access routes. These impacts may occur simultaneously and in various places across the AHJ, having cascading consequences across the community placing higher demand on emergency response and community support services. Best practice is to ensure emergency response and

continuity plans address current and future climate risks. The following graphs illustrates temperature and precipitation for the AHJ from



1981 to 2020:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Daily Average (°C)	-7.0	-5.5	-0.7	6.6	13.2	18.4	21.5	20.6	16.2	9.6	3.7	-2.6	7.8
Standard Deviation	3.4	2.5	1.9	1.5	1.6	1.3	1.2	1.2	1.2	1.2	1.5	3.1	0.8
Daily Maximum (°C)	-2.6	-1.0	3.6	11.1	17.8	22.9	25.9	24.9	20.4	13.5	7.4	1.2	12.1
Daily Minimum (°C)	-11.4	-10.0	-5.1	2.1	8.6	13.9	17.1	16.3	12.0	5.6	0.1	-6.4	3.6
Extreme Maximum (°C)	14.0	13.5	24.0	28.0	30.0	34.0	35.0	34.5	30.0	25.0	19.5	16.0	

Source: Environment Canada, Climate ID 6104175

Office of the Fire Marshal and Emergency Management

The Office of the Fire Marshal and Emergency Management (OFMEM) and the Agency are separate organizations, one being a Provincial entity and one being a Municipal entity. Both organizations support each other in the provision of fire protection services. The Fire Protection and Prevention Act, 1997 (FPPA) and related regulations establishes the powers and duties of the Fire Marshal across the Province of Ontario. The FPPA further defines the responsibilities of the Governing Body when a fire department is established locally.

The OFMEM provides oversight and when necessary, monitors compliance to ensure municipal fire services in Ontario deliver the appropriate levels of fire prevention and protection according to the needs and circumstances of the community. The Office of the Fire Marshal and Emergency Management provides the following support to municipal fire services:

- Training for firefighters and other fire department personnel
- Seminars and materials on understanding legislated obligations
- Programs, resources and guidelines on fire department management, firefighter safety, risk analysis, fire prevention, public education, volunteer recruitment, master fire planning and fire protection
- Professional development seminars
- Media relations tools and public service announcements
- Information on product recalls and warnings
- News relevant to their profession including peer activities
- Recognition of service (medal programs)

The OFMEM provides fire departments and Governing Bodies with advice and assistance. For example:

- Providing the municipal fire service with an OFMEM Fire Protection Adviser offering advice on fire protection services and other fire safety matters.
- Providing engineering and technical staff assistance regarding the application of the FPPA on technical matters.
- Assisting the municipal fire service should a building closure be required and providing technical guidance in writing the Order to Close and related correspondence when fire and life safety is at issue.

Other OFM responsibilities:

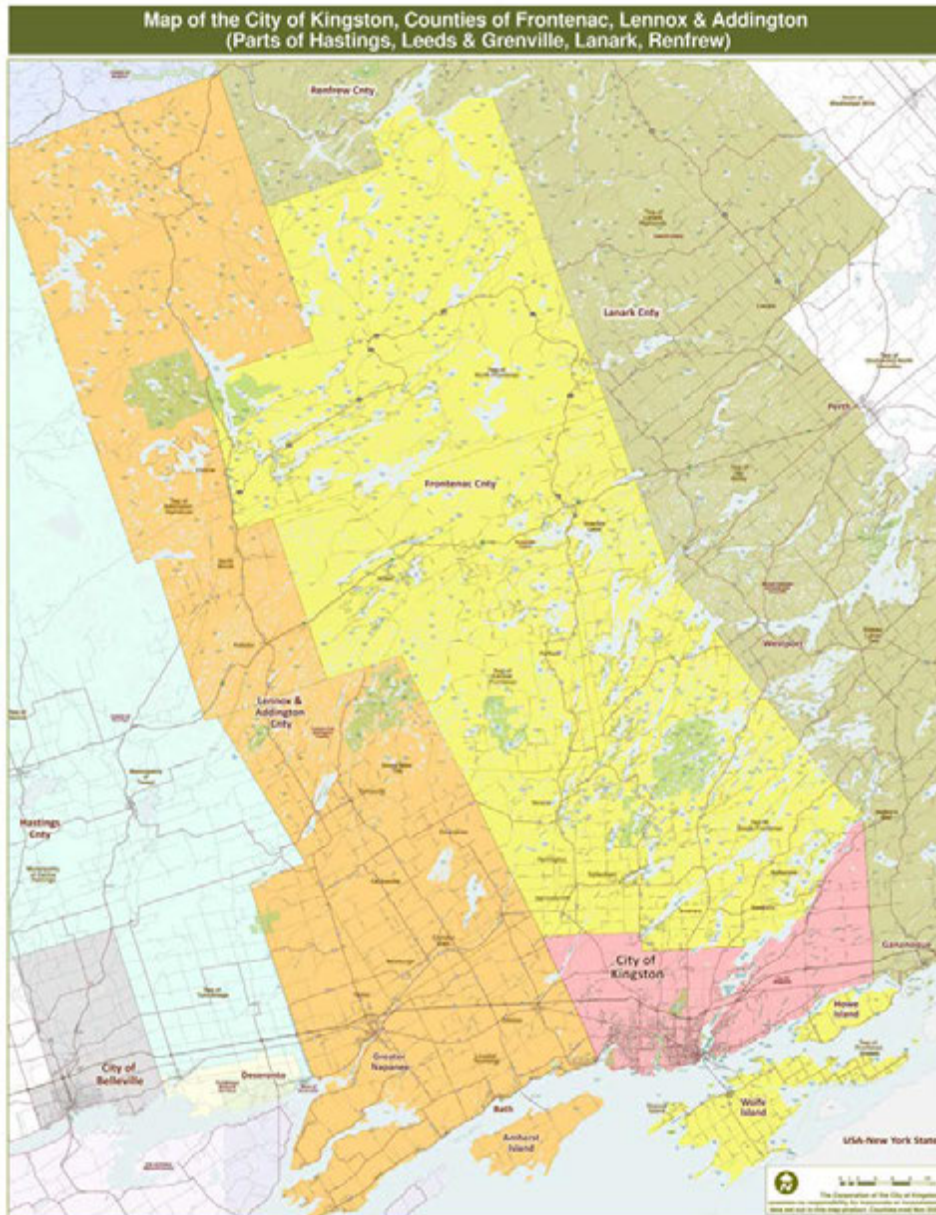
- Administering the FPPA, the Fire Code, and provincial emergency systems such as province wide mutual aid that involves neighbouring fire services
- Conducting fire investigations
- Maintaining fire-related statistics
- Applying research to support fire services
- The administration of the FPPA, the Fire Code, and provincial emergency systems involving fire services
- Conducting fire investigations
- Maintaining fire-related statistics

Kingston, Frontenac, Lennox and Addington (KFL&A) County Mutual Aid Plan

The requirement to maintain a fire service Mutual Aid Plan and coordinate the activities within the plan is the responsibility of the Provincially appointed Fire Coordinator. The Fire Chief and Deputy Fire Chief for the Agency are Provincially appointed Fire Coordinators for the KFL&A Mutual Aid Plan. The authorization to participate in this plan is referenced through the Agency's establishing and regulating By-Law. The relevant response assignments and plan details are contained within the Office of the Fire Marshal Mutual Aid Plan for KFL&A. The Agency is responsible for all emergency radio communications, dispatch functions and is a 911 secondary public safety answering point (secondary

PSAP) across the KFL&A service area.

The following map identifies the secondary service boundary for Kingston Fire & Rescue's participation in the Kingston, Frontenac, Lennox and Addington Mutual Aid Plan



Automatic Aid

The Agency has an automatic aid agreement to provide services for areas within the United Counties of Leeds and Grenville for the provision of fire protection services to parts of Highway 401. The rationale for the agreement is that each Agency's resources can more effectively reach parts of the other's area due to obstacles created by highway 401, a divided highway running east and west through the Agency's area.

The Agency provides, regional fire communication services under contract to eight area fire departments across Kingston, Frontenac Lennox and Addington geographical areas. The provision of fire communication services further assists with the delivery of County mutual aid coordination by the Agency's Fire Chief or their designate.

Mission, Vision, Values and Standard Response Goals

The Agency works collaboratively with its internal and external stakeholders to provide professional emergency services in a safe and timely manner. The Agency consulted with internal stakeholders to update and publish its mission and values, goals and objectives as part of its 2017-2019 three year service review. The Agency's mission promotes safety and innovation through prevention and education by supporting fire and life safety for all.

The Agency's vision leverages a progressive, innovative service with healthy and satisfied citizens and employees. The Agency's fiscal health enables updating of the AHJ's infrastructure and community growth. The Agency supports a high quality-of-life for all the AHJ's citizenry.

Agency Values

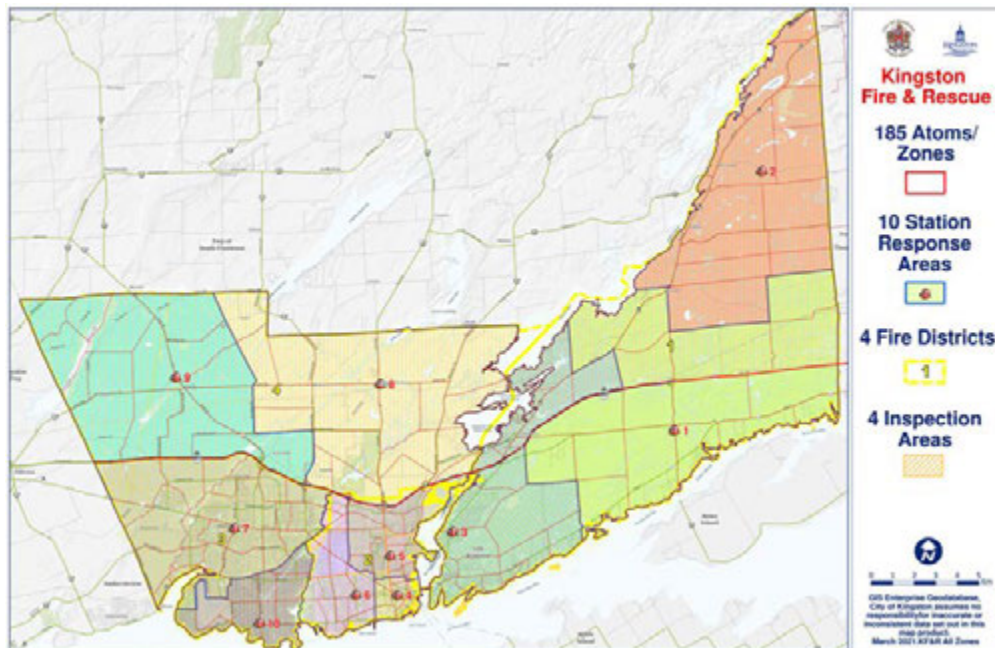
- Teamwork
- Respect
- Integrity
- Pride

Agency Standard Response Goals

1. Safety and Health of Responders
2. Save Lives
3. Reduce Suffering
4. Protect Public Health
5. Protect Critical Infrastructure
6. Protect Property
7. Protect the Environment
8. Reduce Economic and Social Losses

The Agency is a composite fire service with 291 members authorized by by-law to deliver fire protection services across four fire districts and ten fire stations. The Agency is supported by a fire suppression division, a training division, a mechanical division, a fire prevention division, a communication's division, and an administration division. The delivery of fire protection services includes fire suppression, fire prevention and fire safety education, rescue, emergency communications and the training of members engaged in providing fire protection services.

The following map illustrates the Agency's response boundaries.

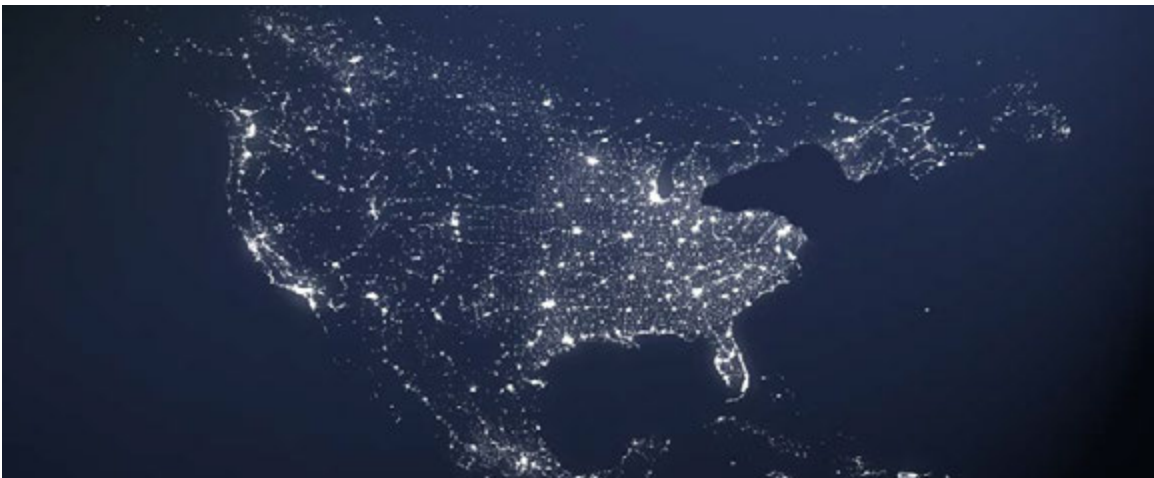


Significant Historical Events Since Amalgamation of the AHJ

In 1998, seven days following amalgamation, southeastern Ontario was devastated by a severe ice storm leaving the AHJ without power for ten days.



On August 14, 2003 the AHJ, including 50 million residents of the Province of Ontario were hit with a major power outage to the electrical grid causing the Province to declare a state of emergency. The outage ended on August 22, 2003 concluding the largest power outage in North America's history.



On December 17, 2013 the Agency and the AHJ responded to the Williamsville district fire in the City of Kingston. A partially constructed, wood frame apartment building caught fire burning one entire city block. The fire required mutual aid support from all area fire services. A crane operator was trapped above the fire and was rescued by a Canadian Forces helicopter from Trenton, Ontario.



During the first week of May 2017, flood waters rose across the City of Kingston causing flooding along the St. Lawrence River, the Cataraqui watershed and along shores of Lake Ontario. The flood created shoreline erosions and damage to municipal infrastructure in and around the waterways. Flood waters continued throughout the summer and remained higher than normal conditions for the entire year.



During March 2020 the Severe Acute Respiratory COVID-19 virus pandemic impacted the Kingston, Frontenac, Lennox and Addington areas.



Description of Agency Programs and Services

Administration Division



The Administration Division is located within the Agency's Headquarters, located at 500 O'Connor Drive, Kingston, Ontario. The Administration Division of the Agency is comprised of the Administrative Assistant to the Fire Chief, Finance Clerk, Fire Prevention Secretary, Inventory Clerk, the Fire Chief, two Deputy Fire Chiefs, the Manager of Administration and Emergency Preparedness, Assistant Deputy Chief. Administration supports the various divisions and serves to ensure the complexity and mission of the Agency is adequately managed.

Administration is responsible for ensuring oversight and transparency for all fire protection services by supporting the provision of fire protection services; managing the capital and operating budgets; managing external Agency agreements; recruitment of personnel in collaboration with Human Resources, workplace safety; and maintaining the Authority Having Jurisdiction's Emergency Operations Centre in a state of continual readiness. The Agency's organizational documents, forms, standard operating procedures, guidelines, operational manuals and external agreements are reviewed and updated by Administration in support of all agency programs and services. The Agency evaluates external agency performance to ensure external agencies are capable and effective in supporting the Agency's annual goals and objectives. Revisions to external agreements are made in conjunction with the Agency and AHJ Legal Department, prior to recommending to the Governing Body for approval.

The Agency receives AHJ IT personnel support appropriate for the Agency's size, function complexity and mission. The Agency maintains one Manager of Administration and Emergency Preparedness. The position is the lead Agency representative for critical IT Systems used by the Agency including computer aided dispatch hardware, telephony and radio software and third party contractors who are engaged in support of the Agency's mission. The Agency works in collaboration with AHJ's IT department for the business continuity of all corporate business systems across the network architecture platforms managed by the AHJ.

Communications Division

The Agency's Communications Division is a critical piece of the emergency response process. The Agency employs an adequate number of qualified Emergency Telecommunicators (10) known as Communication Technicians (CT). CTs are scheduled on a rotational basis to answer and dispatch resources based upon the anticipated call volume. The Communication Supervisor acts in replacement of a Telecommunicator as required when scheduling gaps arise.

The Agency conducts an eight-week in-house Communication Technician (CT) training program. The objectives include theoretical and practical components for completion. The training program is delivered in the Communications Centre (CC). Training consists of knowledge discovery, job familiarization, and hands on practical instruction in a training environment. Communication Technicians provide accurate, pertinent information within prescribed standards to ensure that first responders are dispatched efficiently to initiate responses to reported emergencies. The Agency has an established time-based performance objective for alarm handling/call-processing as documented in the AHJ's Kingston Fire & Rescue Services By-Law number 2021-91, as adopted by the Governing Body. The By law incorporates alarm handling into the total call processing time. The adopted call processing time is 90 seconds.

The Agency has a Motorola public safety grade (P25) digital trunked communications system in place to ensure two-way communications between fixed, mobile and portable radios are maintained. In areas where communication is limited the Agency has operational procedures in place utilizing dedicated digital voice repeaters (DVRs) channel(s) to ensure system redundancy and continuity of communications in the field. Calls are dispatched with the aid of mission critical equipment consisting of Computer Aided Dispatch (CAD), P25 Simulcast Trunked radio system (gold standard for emergency services) and telephony software. The Agency's P25 Radio System has Interoperable channels programmed for communication with other agencies including the AHJ's municipal police force, the AHJ's regional Ambulance Communication Centre, The Agency's radio system is programmed to communicate with the Aircraft Control Tower to maintain aircraft communications. The Agency can

communicate with the Joint Rescue Communication Centre (JRCC) when coordinating search and rescue in the air or on the water. The Agency has designated communication channels with other fire services on the Ontario Fire Marshall (OFM) common frequency/channel.

The Agency has a primary and a back-up Communication Centre (CC). Both CCs are adequately equipped and designed for the purpose of emergency communications.



The CCs are designed to provide adequate communications for the service area. The back-up CC is located at the Agency's backup location within the AHJ's municipal police headquarters. The Communication Centre is located within the Agency's Headquarters at 500 O'Connor Drive, Kingston, Ontario and is staffed on a 24-hour continuous basis. A fully functional back up site is located at Kingston Police Headquarters, 701 Division Street, Kingston, Ontario.

The Communications Division provides fire emergency and non-emergency dispatch services on behalf of the following nine fire departments including the AHJ:

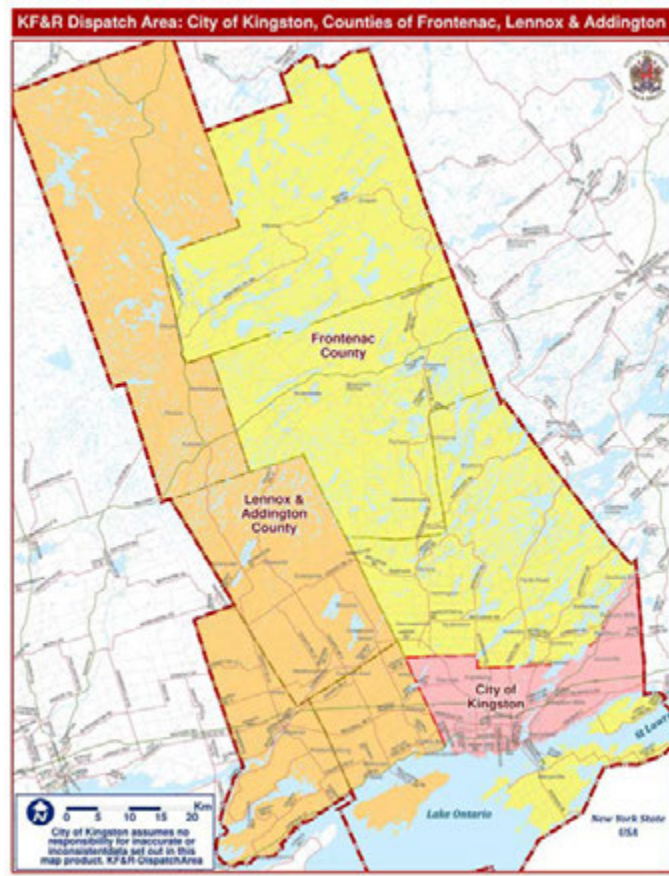
- the Authority Having Jurisdiction
- South Frontenac Township
- Central Frontenac Township
- North Frontenac Township
- Township of Frontenac Islands
- Loyalist Township
- Stone Mills Township
- Town of Greater Napanee
- Addington Highlands Township

Each fire department within the dispatch area is dispatched independently and the County wide mutual aid fire plan is activated when resources are required to support additional staff and equipment needs.

- In 2018, a total of 43 Mutual Aid incidents were dispatched. The Agency attended six incidents and requested support three times.
- In 2019, a total of 35 Mutual Aid incidents were dispatched. The Agency attended seven incidents and requested support one time.
- In 2020 a total of 35 Mutual Aid incidents dispatched. The Agency attended zero incidents and requested support one time.

The dispatch area contains 75 kilometres of Highway 401, a mixture of high density urban, rural, and remote areas. The area includes two major provincial parks, many lakes, rivers, and streams, including Lake Ontario, as well as cottages and many institutional and commercial operations.

The following map illustrates the areas serviced by the Communications Division:



The Agency has full redundancy of all communication system equipment for the purpose of continuity of communicating through any technical failure. A documented process is in place for implementing back up site procedures and for testing primary equipment upon restoration of the primary site. The primary and back up site equipment are tested and documented weekly to ensure business continuity. The Agency has a fully documented “KFR Evacuation Plan and procedure for evacuation should it be necessary to relocate staff and transfer communication equipment in un-interrupted manner.

Emergency Management Division

The Authority Having Jurisdiction's Office of Emergency Management operates through the AHJ's appointed Community Emergency Management Coordinator (CEMC). The CEMC works with a variety of internal and external stakeholders to assist in preparing for, responding to, recovering from, and mitigating large scale multi-agency emergencies requiring planned coordination. Threats to the community are assessed and determined through a Hazard Identification and Risk Assessment (HIRA). The HIRA is reviewed annually through the Emergency Management Program Committee and all potential risks in the Authority Having Jurisdiction's area are organized in four categories:

- Human Health Emergency
- Natural Disasters
- Technological Disasters
- Human Caused

A municipal compliance report is prepared annually and submitted to the Office of the Fire Marshal and Emergency Management. The report includes any supporting documentation demonstrating compliance to the Emergency Management and Civil Protection Act and its Regulations.

The Authority Having Jurisdiction's emergency management program and plan are established and adopted by the Governing Body under By-Law 2018-105. The Agency conducts training and exercises with persons who have been assigned roles and responsibilities under the emergency response plan. Continuity of Operations Plan for critical services and infrastructure is maintained annually as a requirement of the AHJ. The training is intended to ensure preparedness for those assigned with responsibilities during an emergency. The Incident Management System (IMS) was adopted by the Governing Body in 2018 and is utilized within the Authority Having Jurisdiction to provide an organized framework ensuring standard response goals are prioritized and met by all agencies involved.

The Authority Having Jurisdiction provides two Emergency Operations Centres (EOCs), ready for use by the Municipal Emergency Control Group (MECG). The primary EOC location is at the Agency's Headquarters at 500 O'Connor Drive, the secondary EOC location is at Kingston Police Headquarters at 705 Division Street.

As part of the Agency's emergency management program, emergency preparedness education is delivered on behalf of the AHJ to increase awareness of the hazards that exist within the AHJ's area. The Office of Emergency Management organizes educational events during Emergency Preparedness week bringing together community partners to highlight and educate on the importance of emergency preparedness.



Mechanical Division

The Agency's Mechanical Division is staffed with one Mechanical Officer and two Mechanics who are qualified to provide service, preventive maintenance, and repair and make safe the Agency's emergency response vehicles, utility vehicles and equipment. The Agency ensures that equipment (including tools) maintenance, testing and inspections are conducted by qualified personnel and follow manufacturer's recommended procedures and schedules. Mechanical Division staff are certified Automotive Service Technicians, Truck and Coach Technician and Master Emergency Vehicle Technicians. The Agency's inspection, testing, preventative maintenance, replacement is scheduled, and emergency repair of all apparatus are well established and meet the needs of the Agency.

The Mechanical Division is responsible for but are not limited to the following:

- Perform repairs, maintenance, safety inspections and testing of all the Agency's emergency response vehicles and utility vehicles
- Perform annual equipment inspections and testing to ensure the Agency's equipment meets or exceeds manufacturer safety and performance specifications.
- Create detailed specifications for all new emergency response vehicle designs prior to acquisition.
- Perform acceptance testing, mount new/upgraded equipment on new fire apparatus.
- Assist in the development of training manuals for emergency response vehicles and equipment.
- Maintain mechanical parts and supplies inventory.
- Manage the Mechanical Division third party contracted services.

The Mechanical Division operates from a 730 square metre maintenance facility that consists of a 520 square metre work area, office, stock room, tool room, kitchen, showers, change rooms and washrooms. The Mechanical Division is equipped with a mobile service and repair unit, providing mechanical support at emergency scenes and other locations as required.

The following are pictures of the Agency's mechanical maintenance facility:



Training Division

The Agency's Training Division is staffed with three Training Officers, one Chief Training Officer and four volunteer Training Coordinators, that provide training through applied knowledge, skills, and practical development in a variety of formats for its members. The Agency's training program is consistent with the Mission statement, goals and objective of the Agency. This is done through the Agency's adoption of provincial standards and incorporation of these into the mission statement and standard response goals. The Agency has access to, and develops, instructional personnel from within the organization and outside of it that are qualified to meet the needs of the Agency.

The Agency has a minimum level of training and education with a process in place to identify training needs for initial training, ongoing training and training activities to enhance the requisite knowledge, skills, and abilities to meet the Agency's needs. The Agency reviews and updates the training plan annually. Training materials are evaluated to align with the training plan, to include the current and future needs of the Agency.

Learning and development required to meet AHJ corporate training requirements are tracked by the Agency for completion and maintained by the AHJ's Human Resources, Organization and Development division. AHJ requisite learning includes training on policies as set out by the AHJ.

The Agency adopts and documents performance testing for recruit evolutions, provincial testing standards, reclassification testing, driver testing and a structure for command and evolutions. The Agency provides evaluations after the conducted training to determine the reliability and comprehension of knowledge, skills and abilities received.

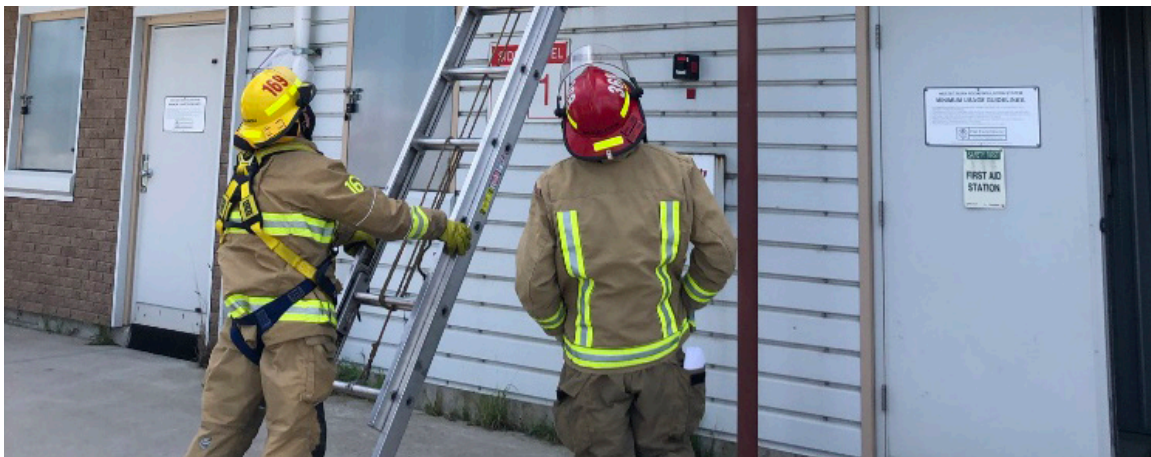
The Agency's occupational health and safety training commences at the on-boarding phase of employment with the Agency. Job specific occupational health and safety, operational processes, procedures, and equipment training continues through regularly scheduled training as per the Agency's standard operating procedures (SOP). The Agency has communicated and established

training procedures for preventing the transmission of blood-borne pathogens and other infectious diseases and reducing exposure to harmful chemicals. Procedures and guidelines are reviewed annually and revised as required. The Agency has adopted a comprehensive program to address direct and cross-contamination of clothing, personal protective equipment, other equipment, apparatus and fixed facilities through Standard Operating Procedures (SOPs).

The Agency incorporates risk management practices to increase the level of decision making and the ability to identify unsafe conditions and practices during emergency operations by operating within the Agency's adopted Incident Management System (IMS) and SOPs, this includes all fire training evolutions requiring incident command. The AHJ has a proactive approach to reviewing near miss accidents and is formalized in accordance with AHJ requirements. Recommendations form part of the Agency's proactive response to prevent near misses in future responses.

The Training Division is located at the Agency's Headquarters facility and maintains training records and coordinates programming for annual fire suppression training requirements from recruit firefighter training to officer training. The Agency has a Regional Training Centre (RTC) that is available for Firefighters to develop and refine skills in simulated response conditions. The RTC consists of a six-storey training tower and related props that contribute to specialized training including general emergency response training for all KFR emergency response programs.

The following is a picture of the RTC training tower:



Fire Prevention Division

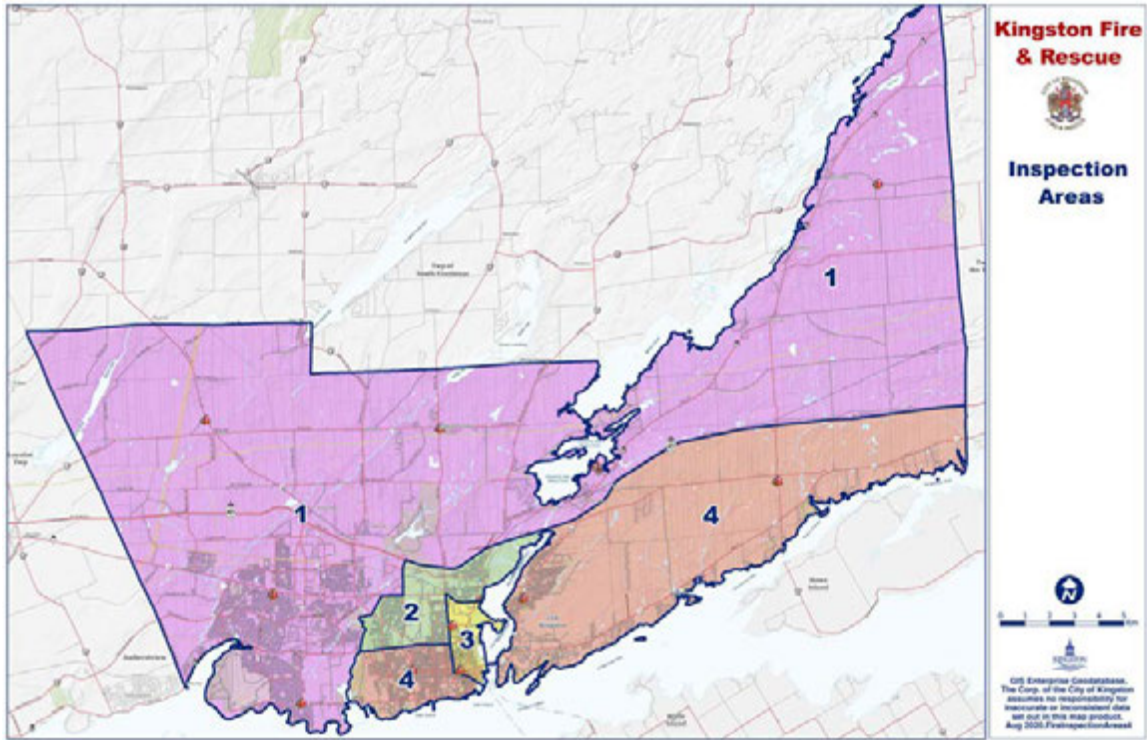


The Agency's Fire Prevention Division is located at the Agency's Headquarters facility and has seven Fire Prevention Inspectors and one Chief Fire Prevention Officer assigned to prevent and reduce the loss of life and property through inspections and proactive public education programs. The three goals of the Fire Prevention Division are:

1. Ensure public education programs are offered and available to all age demographics, with a focus on high-risk populations to preserve life and property.
2. Conduct fire safety inspections of all occupancies to match the needs of the communities we serve. This will be accomplished through policies and procedures to ensure a fair and consistent approach for each inspection.
3. Ensure fire cause and origin determination to effectively analyze and effect improved loss control.

All Agency Fire Inspectors complete the Ontario Fire Prevention Officer Diploma Program, Ontario Building Code qualification program and ongoing professional, site specific training and development covering inspection and enforcement techniques.

The following map illustrates the Agency's four fire inspection areas:



Building Code Compliance

The Fire Prevention Division is involved in Authority Having Jurisdiction's building code permit activities from consultation on proposed development and construction projects to zoning by-law amendments, official plan amendments, technical circulations, civic addressing reviews, plans examination, occupancy inspections and building commissioning of fire protection systems.



The Fire Prevention Division consults on plans of new subdivisions for fire department access and water supply in compliance with current building fire and life safety standards. The Fire Prevention Division oversees and informs the Fire Suppression Division operational preplanning for new occupancies.

The Ontario Fire Code requires that once every 12 months, a fire drill in care occupancies, care and treatment occupancies and retirement homes be carried out using a scenario representing the lowest staffing levels that might be encountered in the facility. Annually, the Agency witnesses timed egress drills and conducts comprehensive inspections annually in all care occupancies, care and treatment occupancies, or retirement homes as determined by the Ontario Fire Code throughout the City of Kingston.

Fire Investigations

The Fire Prevention Division completes fire cause determination in accordance with the Agency's Standard Operating Procedures. Under certain conditions the Provincial Office of The Fire Marshal will be summoned to lead fire cause determination and arson investigations.



Public Education and Community Engagement

The Fire Prevention Division educates the public on fire prevention and life safety through public education and community engagement programs in accordance with the Province of Ontario, Fire Protection and Prevention Act. Activities include season fire prevention messaging and Agency activities designed to target specific behaviours that may lead to injury or death by fire.

The Fire Prevention Division in collaboration with the AHJ's Communications and Customer Experience Service Division coordinates the issuance of media releases, including relevant and timely information for posting to the AHJ's Website.

In 2021, a public education review and plan was completed analyzing fire losses using historical response data, occupancy types and demographic information. The applicable trends will be used to form part of the fire prevention program planned fire loss reduction goals.

Kindergarten Fire Safety Program

The kindergarten school Fire Safety Program educates all kindergarten children within the AHJ in proper fire safety procedures and techniques to approximately 200 kindergarten classes per year.

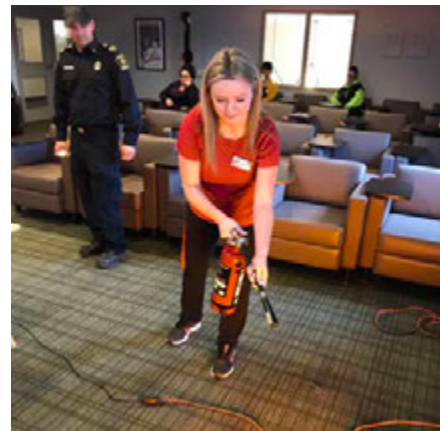


Grade Four Fire Safety Program

The Agency's Grade Four Safety program educates all the grade four children within the City of Kingston on the importance of home smoke and carbon monoxide alarms, how to complete a home fire safety inspection and discussions around safe cooking practices.

Fire Extinguisher Training

The Agency's Fire Inspectors conduct extinguisher training at the Agency's Regional Training Centre as well as virtually.



TAPP-C Program

The TAPP-C Program addresses juvenile fire setting in children ages two to seventeen. It is a collaborative program involving the Agency's Fire Inspectors and Kingston's mental health professions working towards eliminating dangerous fire setting behaviours.

Smoke Alarm Program

The Fire Prevention Division coordinates a smoke and carbon monoxide alarm programs to reinforce compliance to provincial regulations. The program includes proactive inspections, provision of alarms and detectors as required for the protection of the occupants.

Federal Partnerships

Federal Institutions within the area of responsibility are not required to comply with the Ontario Building and Fire Code. As a result, the Agency has developed strong partnerships with CFB Kingston, Corrections Canada and St. Lawrence Parks commission to assist with fire prevention in the federal jurisdiction within the City of Kingston municipal boundaries.

Mutual Aid Fire Prevention Committee

The Agency participates in the KFLA Fire Prevention Committee in collaboration with fire prevention staff from ten area fire departments.

Fire Prevention Week

As part of Fire Prevention Week, the Fire Prevention Division conducts focused events, fire station tours, fire drills and fire safety demonstrations to enhance fire and life safety throughout the community.

Station Tours

The Fire Prevention Division provides various groups the opportunity to visit a fire station, meet the firefighters and receive fire prevention tips.

Public Relations Events

The Agency's Firefighters and Fire Inspectors attend numerous events through the community to interact with the public and distribute fire prevention materials.

Daycare Visits

Agency Firefighters attend numerous daycares upon request so the young youngest community members may meet the firefighters and learn about community helpers.



Fire Suppression Division

The Agency's suppression programming maintains volunteer and full-time firefighters responding with apparatus and equipment to reported fires within the rural and urban areas of the AHJ. Volunteer firefighters respond upon receiving a page and full-time firefighters are scheduled across four separate platoons. Fire suppression responses within the municipal boundary include structure fires at residential, commercial, industrial, assembly, institutional occupancies, vehicle fires and all other unplanned fires. Fire Suppression responses total 17% of all incidents during the 2018-2020 period.

The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene. Fire suppression activities in support of command ensures a safe, accountable approach before, during and after an emergency response to a fire.

Fire Suppression Program Strength: 291 | Volunteer Total Members:165

Roster Assignment per Station:

- Station #1: 24
- Station #2: 24
- Station #3: 35
- Station #7: 34
- Station #8: 24
- Station #9: 24

Career Total Members:126 | Number of Platoons: 4

Shift: 24 Hours, Four-week rotation

Minimum Staffing Assignments per Shift per Platoon: 24

- Station #4: 8 (5 Firefighters, 2 Captains, 1 Platoon Chief)
- Station #5: 4 (3 Firefighters, 1 Captain)
- Station #6: 4 (3 Firefighters, 1 Captain)
- Station #7: 4 (3 Firefighters, 1 Captain)
- Station #10: 4 (3 Firefighters, 1 Captain)

Technical Rescue

The Agency has a technical rescue program that maintains a cohort of Firefighters with specialized training, tools and equipment necessary to stabilize unsafe situations and free lifeforms from entrapment. Agency Technical Rescue programming includes rope rescue, confined space rescue, rescues from structural collapse, trench rescue, vehicle rescue, water and ice water rescue. Technical Rescue represent 11% of the overall incidents in 2018-2020.



Emergency Tiered Medical Response

The Agency provides emergency medical response programming to the population served in the Authority Having Jurisdiction. The program is provided through an agreement that automatically tiers the Agency in advance of the Frontenac County Paramedic Service. Patient care and documentation requirements are undertaken by the attending Paramedics upon arrival. The Agency provides a basic life support (BLS) and dispatches staff and physical resources to medical emergencies in accordance with a Medical Tiered Response Program Agreement (Agreement) between the Corporation of the County of Frontenac (Corporation) and the Authority Having Jurisdiction (AHJ).

The Agency's tiered response program service is recognized as an effective method of coordinating between the AHJ and the Corporation to provide rapid first response assistance from the Agency to the public in the timeliest and efficient manner possible. This is operationalized by sending the closest appropriate staffing and physical resources to render assistance at the scene of an emergency incident until the arrival of Frontenac Paramedic Services (FPS). The overall intent is to activate a timely response and provide patient care prior to the arrival of the County's Frontenac Paramedic Services (FPS). After arrival of FPS, the Agency will continue to provide medical care as directed and in support of the attending Paramedic.

The Central Ambulance Communications Centre (CACC) notifies the Agency's Communications Centre under the following medical emergencies within the AHJ:

1. Vital Signs Absent (VSA)
2. Unconscious Patient
3. Airway Obstruction
4. Absence of Breathing
5. All Motor Vehicle Accidents
6. All other high priority calls when the ambulance response is greater than 15 minutes and when there is a clear response time advantage for the Agency to attend.

Firefighters are trained in first responder basic life support first aid, airway and trauma management and semi-automatic defibrillation for cardiac emergencies. Emergency Tiered Medical represent 26% of the overall incidents in 2018-2020. The Agency provides a public access defibrillation program (PulsePoint) encouraging community responders to acquire the software application, participate in a Cardiopulmonary Resuscitation (CPR) training program and become a PulsePoint responder. The location of the public access defibrillators are registered by the Agency and added onto the PulsePoint application for public access.

Marine Based Firefighting

The Agency maintains a Marine Based Firefighting program delivers trained firefighters that respond on a fire boat to control and extinguish fires on the water and along the shores of Lake Ontario, St. Lawrence River, and the Cataraqui River adjacent to the City of Kingston's area of responsibility. The fire boat will support other response agencies that provide water search and rescue. The Agency maintains eight Coxswains who captain the fire boat under a Transport Canada license that allows them to operate the fire boat in sheltered waters between Gananoque, Ontario to Picton, Ontario and Charity Shoal, NY to Clayton, NY. The Coxswains are assisted by twenty-two Deckhands. Deckhands must successfully complete Transport Canada's required training plus additional ship specific sea training. All career suppression firefighters have vessel safety training in support of the marine based program. Marine based firefighting represents less than 1% of the overall incidents in 2018-2020.



Hazardous Materials

The Agency responds to a wide variety of potential situations that could result in hazardous materials spills and/or releases with a known or unknown substance. This release could be due to a transportation accident, an unplanned chemical reaction, explosions, or other similar events. The Agency organizes and trains responders to safely secure the areas around the spill and establish safe working zones for all involved. Agency activities will contain the hazardous materials incident and take direct mitigating activities where necessary to reduce any further migrations of the release that could impact life, property, or the environment.

Fire suppression members maintain minimum training to the standard of Hazardous Materials Operations and mission specific tasks based on the accepted standards which includes establishing safe zones of operation, decontamination procedures and continuous monitoring. The overall goal of the hazardous materials response is to protect life and property and reduce further harm to the environment by taking specific action to stop further release of the product and to contain the release in order that actions can be taken to safely recover and clean up the area to a pre-release state. Hazardous Materials represent less than 1% of the overall incidents in 2018-2020.

The following is a picture of the Agency firefighters training at the Regional Training Centre:



Wildland Firefighting

The Agency's Firefighters are trained to respond for ground control operations and extinguishment at wildland fires. Wildland Units are available for responses and are specifically equipped for grass and brush fires within the AHJ. The Wildland Units include two large one ton truck with a booster tank, each with a side by side utility terrain vehicle.

The Agency has a wildland standard of cover that strategically locates and provides an approved wildland firefighting program that meet the needs and circumstances of the AHJ. The Agency's follows a written plan to ensure fueling of Agency equipment used for wildland fire responses. The Agency's By-law sets out requirements for open-air fires with the goal to reduce any uncontrolled spread of wildland fire within the AHJ. The By-law includes a compliance survey and permit process for residents of the AHJ to follow. The Agency may inspect and enforce any open air fires to ensure compliance with the By-law's requirements. Wildland Firefighting represents 2% of the overall incidents in 2018-2020.

Aviation

The Agency provides trained Firefighters and equipment for response to an aviation incident at Kingston International Airport. The aviation response involves ensuring a dedicated communication link to the air traffic control tower prior to entering the aerodrome. The Agency ensures all responders receive training specific to operations in and around the airport and the aerodrome. The Agency participates with Airport officials in documented simulated emergency events as required Transport Canada. One senior staff member is assigned to work with airport officials on unified response procedures. The information is used to inform the Agency's standard operating procedures for airport radio protocols. Pre-plans are reviewed at least annually to ensure staff and airport officials are aligned and working to mitigate any event that threatens the safety of airport operations. Aviation represents less than 1% of the overall incidents in 2018-2020.

Staff, Apparatus and Equipment Deployment

The Agency deploys a minimum level of staff, apparatus, and equipment to points across the coverage area for all initial responses for all service and program types. The distributed equipment is appropriately provided to personnel on an as needed basis or through lifecycle replacement or upgrade. The safety equipment is acquired through the AHJ procurement process with Agency members involved through the joint occupational health and safety committee or through labour relations when safety equipment requests exceed the Agency regular issue.

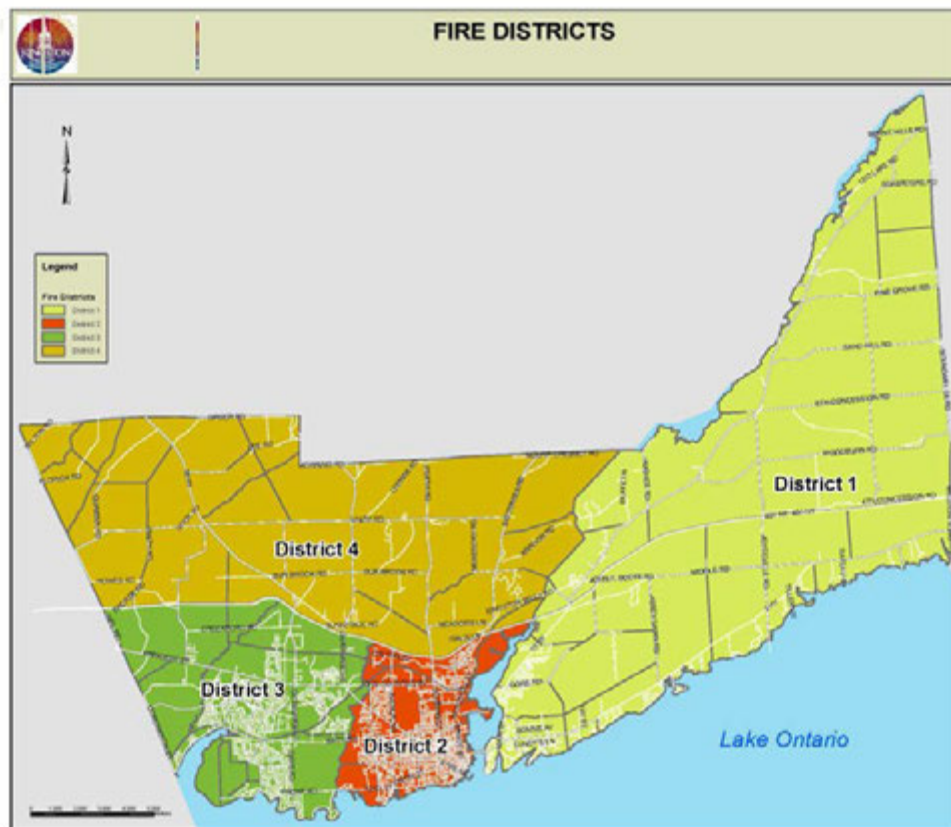
The Agency's Incident Commander (IC) is responsible for initiating the accountability system at an emergency incident. An Accountability Officer is appointed and is responsible for the accountability of all personnel within the established incident zones, conducting Personnel Accountability Reports (PAR), and keeping record of all activity during the incident.

The Agency has established procedures to ensure effective and qualified deployment of an Incident Safety Officer (ISO) to all risk events. The Agency prescribed tasking within its Standards of Cover (SOC) identifies that an ISO is deployed as per the Agency's policies within the Computer Aided Dispatch system for all moderate, high and maximum risk operations. The Agency's Training Officers are certified ISOs under the NFPA 1521: "Standard for Fire Department Safety Officer Professional Qualifications.

The Agency's response area is divided into four fire districts, comprised of station response areas for each district and further divided into geographic planning zones. Information about the types of risks is added into the geographic planning zones and are used to select the most appropriate response to a range of program risks. The selected resources and apparatus may be adjusted based on any additional or modified requests from the scene or as determined by the Communications Centre staff.

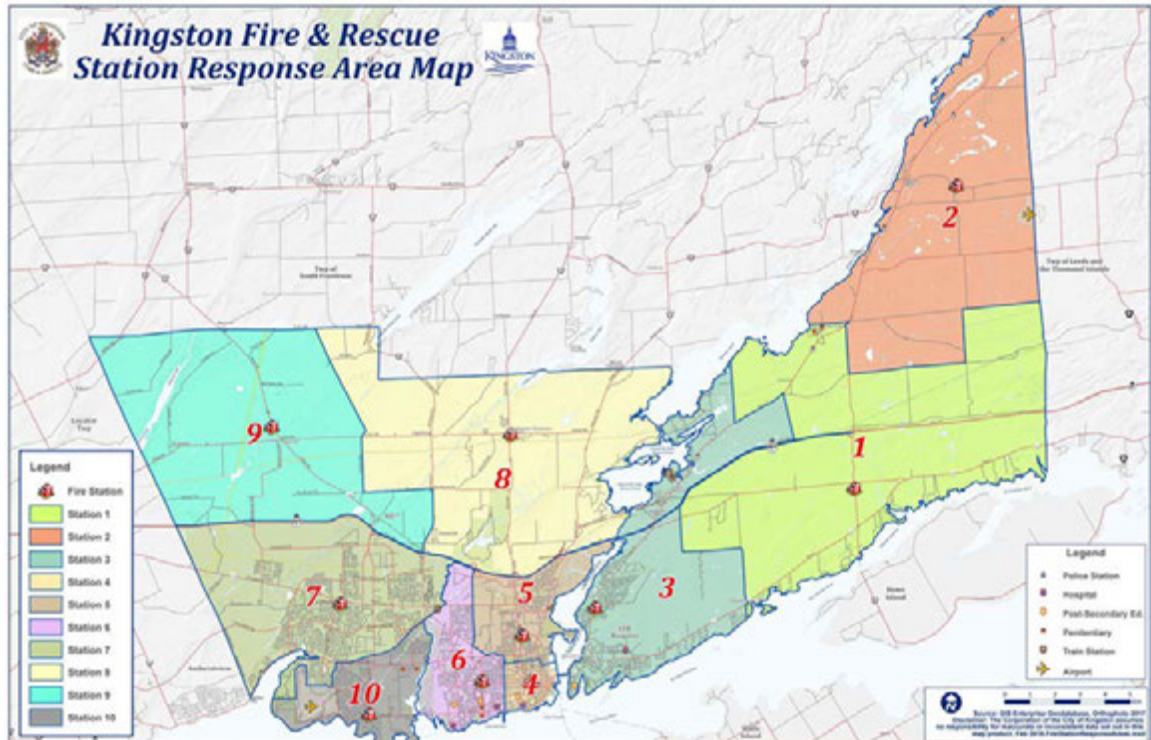
The Agency follows a standard operating procedure for the notification and recall of off-duty agency personnel and telecommunicators follow an adopted a documented systematic process for unplanned and large scale incidents.

The following is a map illustrating the four fire districts within the Agency's area of responsibility.



- Stations #1, #2 and #3 are in District One coverage area: Urban/Rural.
- Stations #4, # 5 and #6 are in District Two coverage area: Urban.
- Stations #7 and #10 are in District Three coverage area: Urban/Rural.
- Stations #8 and #9 are in District Four coverage area: Rural.

The following map illustrates the fire station location(s) and primary response boundaries:



Picture of Station #1

1648 Joyceville Road, Kingston, Ontario K0H 1Y0



Picture of Station #2

3505 Brewers Mills Road, Seeley's Bay, Ontario K0H 2N0



Picture of Station #3

211 Gore Road, Kingston, Ontario K7L 5H6



Picture of Station #4

271 Brock Street, Kingston, Ontario K7L 1S5



Picture of Station #5

171 Railway Street, Kingston, Ontario K7K 2M1



Picture of Station #6

262 Palace Road, Kingston, Ontario K7L 4T2



Picture of Station #7

905 Woodbine Road, Kingston, Ontario K7P 2X4



Picture of Station #8

1485 Unity Road, Kingston, Ontario K0H 1S0



Picture of Station #9

2835 Highway 38, Kingston, Ontario, K0H 1M0

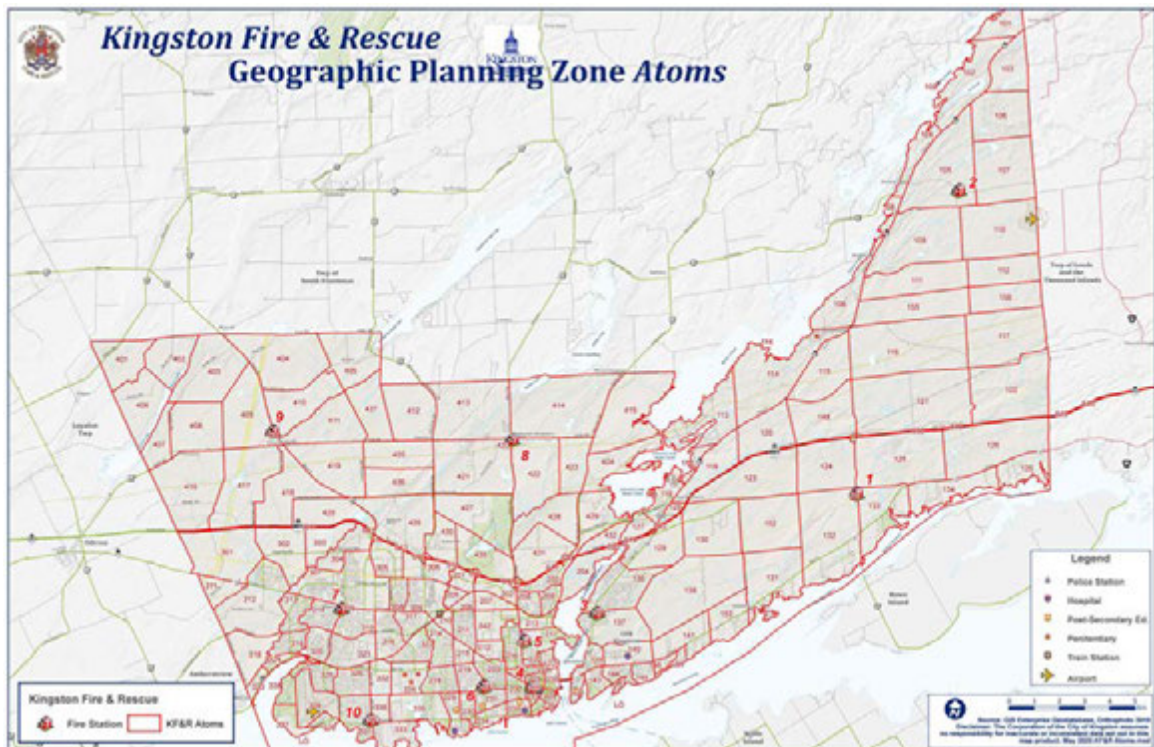


Picture of Station #10

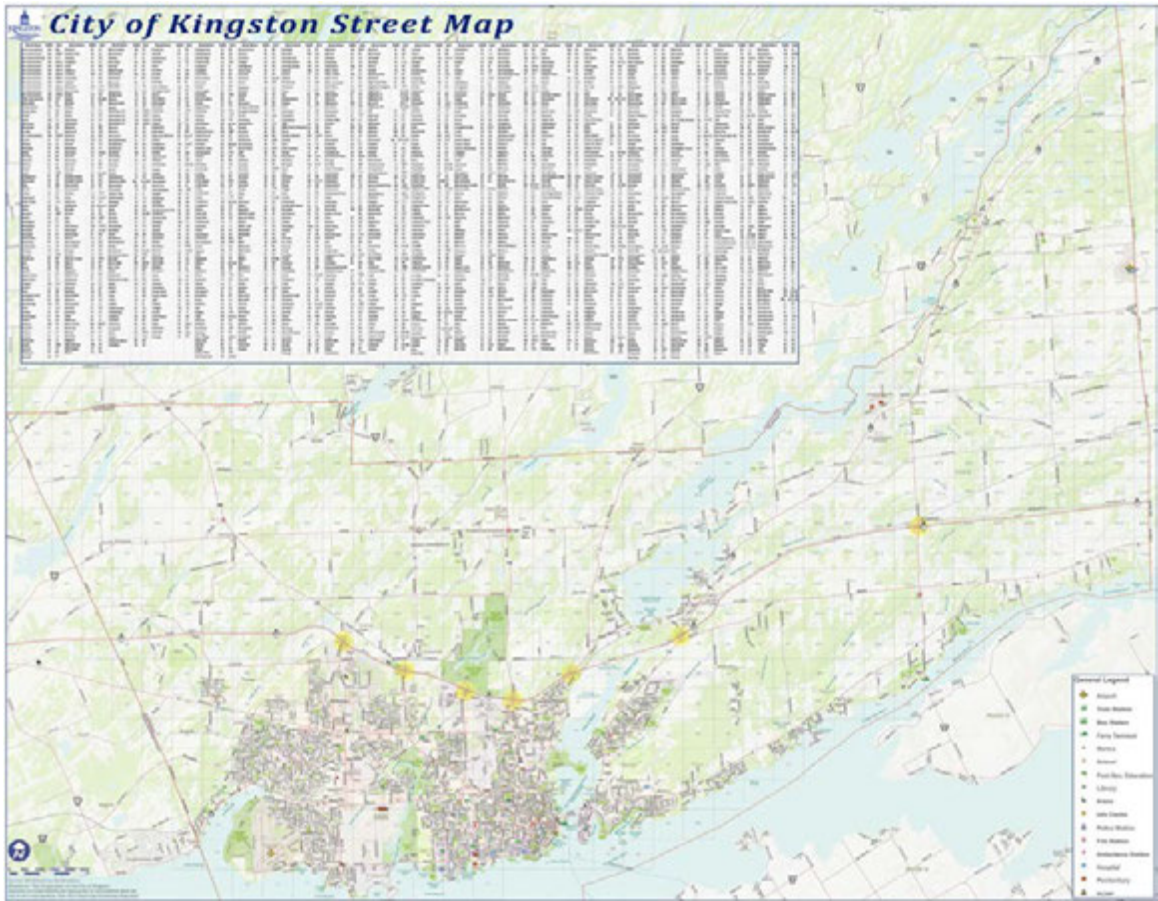
127 Days Road, Kingston, Ontario K7M 3P9



The following map illustrates the 185 geographic planning zones:



The following map illustrates the Street Map for the AHJ:



The following chart illustrates the listing of response apparatus and equipment for the Agency.

Equipment	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Station 10	Specialty Apparatus	Training Centre
Chief Officer											2	
Command											3	
Utility	1		1	1			1		1			
Pumper	1	1	1	2	1	2	2	2	1	1		1
Tanker	1	1	1				1	1	1			
Ariel			1				1					
Ladder				1		1						
Blocker				1								
Squad			1				1					
Tech Rescue				1								
Roll Off - Rescue							1					
Roll Off - Hazmat							1					
Wildland	1							1				
UTV	1							1	1			
Fire Prevention										1		
Training										4		
Boat										1		

The Agency apparatus and support vehicles are appropriate for the functions served. All apparatus and support vehicles are specified according to their operational purpose, equipment load and staffing requirements. The Agency's apparatus and vehicle types meet operational priorities in accordance with the AHJ's Electric Vehicle Strategy.

Agency's Fire Pumper Apparatus are capable of flowing water at a rate up to 6000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.

- Agency Tankers carries 11,365 litres of water.
- Agency Elevated devices include two 30 metre Aerial Platforms and two 23 metre Aerial Ladders.
- Agency Squads provide support equipment at large scenes such as SCBA cylinders and Firefighter decontamination equipment.
- Agency Heavy Rescue are equipped with Technical Rescue equipment and PPE
- Agency Roll-Off Unit respond with Technical Rescue and HAZMAT equipment.
- Agency Wildland Units carry 1,136 litres of water, forestry pumps, hose and equipment required to perform wildland fire suppression operations.
- Agency Marine Unit can supply 15,900 litres of water per minute for firefighting operations along Lake Ontario, the St. Lawrence River and Cataraqui River within to the City of Kingston and respond to water rescue and hazardous material operations upon request from the Canadian Coast Guard.

The Agency has an established lifecycle replacement schedule for all apparatus and support vehicles based on federal/provincial standards, overall condition based on department needs and requirements.

Picture of Station #1 Apparatus



Picture of Station #2 Apparatus



Picture of Station #3 Apparatus



Picture of Station #4 Apparatus



Picture of Station #5 Apparatus



Picture of Station #6 Apparatus



Picture of Station #7 Apparatus



Picture of Station #8 Apparatus



Picture of Station #9 Apparatus



Picture of Station #10 Apparatus



Listing of Agency Equipment Inventory:

Equipment	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Station 10	Total
Hose 100mm x 15m	19	8	2	21	0	0	10	1	14	1	82
Hose 100mm x 30m	1	4	7	0	0	0	3	0	8	0	23
Hose 65mm	14	12	11	43	5	2	12	9	2	6	116
Hose 38mm	14	12	11	22	1	2	18	8	1	4	93
High Rise Hose 38mm	2	0	0	1	0	0	0	0	0	1	4
Hose Forestry	18	0	0	0	0	0	0	4	12	0	34
SCBA Pack	0	0	0	0	0	0	4	0	0	0	4
SCBA Cylinder	0	0	0	0	0	0	3	0	0	4	7
SCBA Mask	0	0	0	0	0	0	18	0	0	0	18
38mm Fog Nozzle	0	0	0	0	0	0	0	0	0	0	0
38mm Solid Stream Nozzle	0	0	0	0	0	0	0	0	0	0	0
65mm Fog Nozzle	0	0	1	0	0	0	0	0	0	0	1
65mm Solid Stream Nozzle	0	0	0	0	0	0	0	0	0	0	0
Forestry Nozzle	1	0	0	0	0	0	0	1	0	0	2
Piercing Nozzle	0	0	0	0	0	0	0	1	0	0	1
Ground Monitor	0	0	0	0	0	0	0	0	0	0	0
38mm Foam Eductor	0	0	0	0	0	0	0	0	0	0	0
65mm Foam Eductor	0	0	0	0	0	0	0	0	0	0	0
100mm Hard Suction Hose	0	0	0	0	0	0	2	0	0	0	2
Portable Pump	0	0	0	0	0	0	0	0	0	0	0
Portable Generator	0	1	0	0	0	0	0	0	0	0	1
PPV Blower - Gas	0	0	0	0	0	0	0	0	0	0	0

Equipment	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Station 10	Total
PPV Blower - Electric	0	0	0	0	0	0	0	0	0	0	0
Chain Saw	0	0	0	0	0	0	0	0	0	0	0
Vent Saw	0	0	0	0	0	0	0	0	0	0	0
Rotary Saw	0	0	0	1	0	0	0	0	0	0	1
Forestry Pump Pack	0	0	0	0	0	0	0	1	0	0	1
Roof Ladder	0	0	0	0	0	0	0	0	0	0	0
Attic Ladder	0	0	1	0	0	0	0	0	0	1	2
24' Extension Ladder	0	0	0	0	0	0	0	0	0	0	0
35' Extension Ladder	0	0	0	0	0	0	0	0	0	0	0
Heater for R271	0	0	0	0	0	0	1	0	0	0	1
Halligan Forcible Tool	0	0	2	0	0	0	0	0	0	0	2

The Agency's tools and equipment are distributed appropriately to meet the operational needs of the specific functional area or program. Each apparatus has an established equipment load that is specific to the apparatus type. The Agency utilizes an electronic inventory program that will track the lifecycle and forecast replacement of tools and equipment. Tools and equipment inventories are reviewed annually and are aligned to meet the Agency's needs. Requirements are contained within the capital and operating budget and submitted for approval by the Governing Body.

The Agency provides supplies and materials to meet the operational needs of specific programs, meeting the requirements of the Ontario Occupational Health and Safety Act (Section 21). Equipment provided is safe, efficient and appropriate to provide stated services to the Agency's area of responsibility in accordance with Fire Services Bylaw 2021-91.

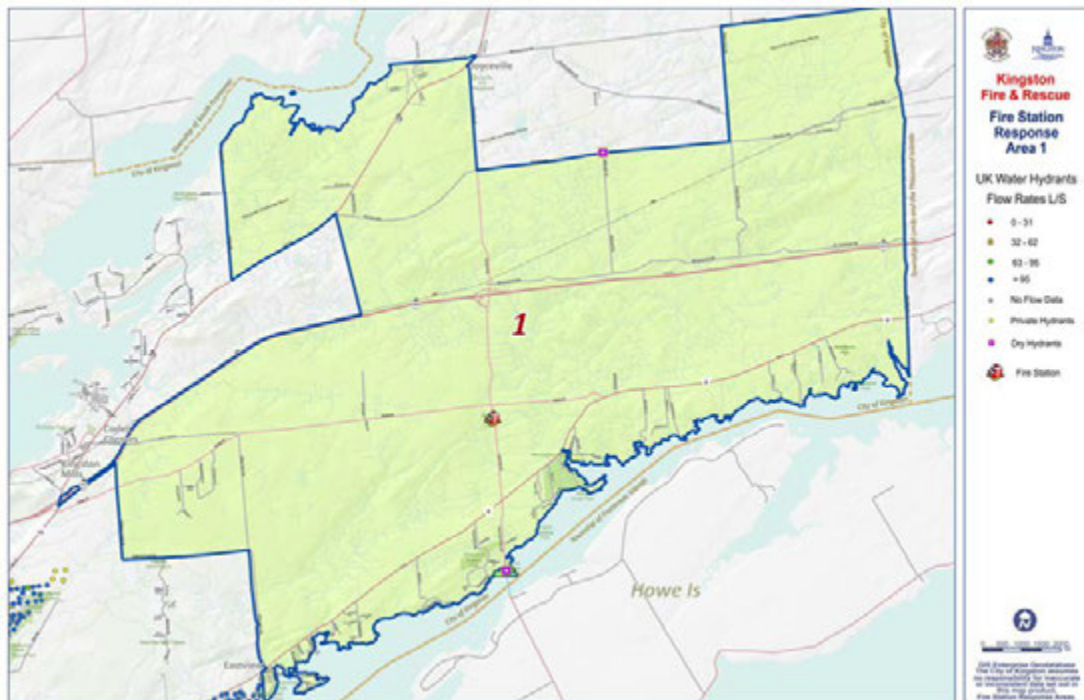
Water Supply

The AHJ is 450 square kilometers with 81% of this geographical area located in a rural setting however 92% of the AHJ's population is situated within the 19% of urban development which is served by the municipal water distribution system.

The Agency has two primary sources of water supply:

- Rural, static sources of water supply from lakes, ponds, streams, and rivers
- Urban, pressurized sources of supply from Utilities Kingston municipal water supply

The following is a map illustrates the urban area serviced by the municipal water supply and the rural area serviced by static sources of water supply from lakes, ponds streams and rivers:



New developments constructed in the urban demographic which is serviced by the municipal water distribution system act in accordance with the application process for the design of public works through the “City of Kingston, Subdivision Development Guideline and Technical Standard” which states that design fire flows shall be in accordance with the “Water Supply for Public Fire Protection, A Guide to Recommended Practices 1977, by Insurance Bureau of Canada.”

The AHJ water purveyor continually provided quality assurance reviews for the information and location accuracy of the water distribution assets in the GIS through on-going maintenance and repair procedures. Field staff appropriately provided mapping and updated sketches and detailed forms upon request from the water purveyor GIS team. The GIS system was updated when there was an identified discrepancy with the accuracy of the mapping versus real world conditions or new construction, maintenance, replacement or repair has introduced a change to the location or information accuracy of the water distribution system.

The Agency and the AHJ requires the placement and spacing of fire hydrants as defined in the “City of Kingston, Subdivision Development Guideline and Technical Standard.” The AHJ standard stipulates that hydrants shall be located so that the maximum road travel distance from a hydrant to the centre frontage of a lot shall not exceed 75 meters. This minimum distance is applicable to all buildings within the AHJ serviced by the water distribution system unless otherwise more stringent requirements as per the Ontario Building Code (OBC). Fire hydrants are inspected annually, when new and repaired hydrants are put into service and after each use. Annual inspections locate possible water system leaks and identify any new maintenance activities a hydrant may require. A dedicated maintenance crew prioritizes maintenance based on the serviceability of the hydrant as a result of annual inspection findings. All inspection results are recorded in the AHJ’s Geographical Information System (GIS) app and archived in the water Purveyor’s local database. Problem hydrants are annually cleared of obstructions (brush, long grass, wild parsnip) and patrolled for snow removal in winter months.

Flow tests are completed by the Water Purveyor, as described by the “American Water Works Association (AWWA) M-17 – Installation, Field Testing, and Maintenance of Fire Hydrants” manual and “NFPA 291 – Recommended Practice for Fire Flow Testing and Marking of Hydrants.” Flow tests are used to determine the efficiency and adequacy of the distribution system in transmitting water by measuring the amount of water available from the system at a specified location.

The Agency is involved in the planning process for subdivision and infrastructure development to provide guidance on the technical standards and procedures required to design, process and obtain approvals for the installation of public works associated with urban subdivision development including water main distribution systems for the purposes of firefighting. Water main sizing within the AHJ boundary is established by the demand of larger flows required for firefighting and not by peak domestic demand so it is therefore critical to define the minimum acceptable standard for fire protection.

When determining an adequate and reliable water supply for firefighting there are three flow factors that are taken into consideration:

- Search and Evacuation Flows - to suppress fire and temperature during rescue personnel entry
- Defensive Flows - to prevent the spread of fire to neighboring buildings
- Offensive Flows - to protect property and to extinguish the fire.

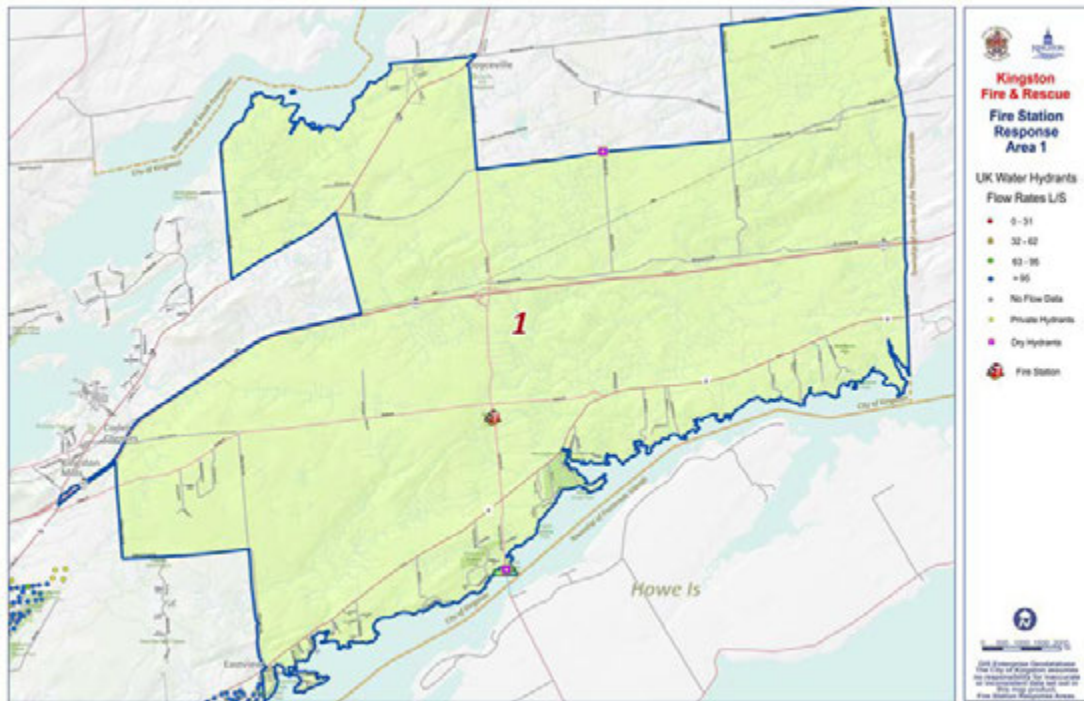
To provide optimum fire protection with consideration of these three flow factors, the AHJ has adopted the use of the Fire Underwriters Survey (FUS) as referenced in the AHJ subdivision guideline to calculate fire flow for new developments.

Rural development that is not serviced by the municipal water distribution system and is required to be provided with an adequate water supply for firefighting as regulated by the Ontario Building Code (OBC), follows the method for calculating fire flow as outlined in the OBC to calculate the volume of onsite water storage.

The Agency plans and trains for the possibility of a water system failure including areas without municipal fire hydrants. The Agency has procedures in place to facilitate the planned supply of water through a tanker shuttle process including formalized testing of the water tanker shuttle process. The Agency maintains an accredited tanker shuttle water supply with flow of 750 imperial gallons per minute/3406 litres per minute over a rated continuous period for the rural area. Additionally, the Agency's marine unit provides a water supply along the Lake Ontario, St. Lawrence and Cataraqui River waterfronts.

The Agency Communications Centre carries out operational procedures for identification of available water supplies and records and shares information on the areas with service interruptions. When a hydrant is scheduled to be put out of service the Agency receives automated correspondence from the AHJ Water Purveyor identifying hydrant(s) number, address and date taken out of service. The Agency Communications Centre inputs the information in CAD based on status and provides updates to Agency responders when watermains are put back into service.

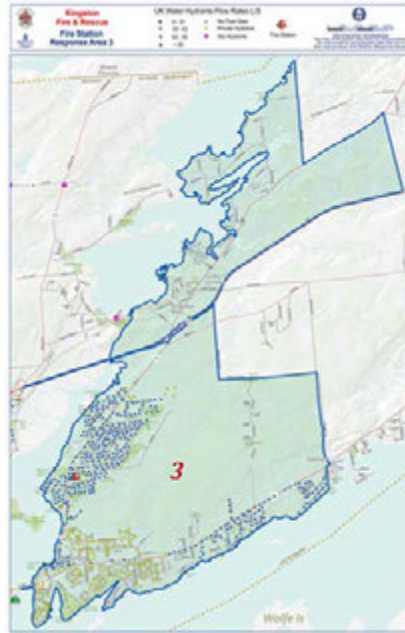
Picture of Station #1 Response Area water supply map:



Picture of Station #2 Response Area water supply map:



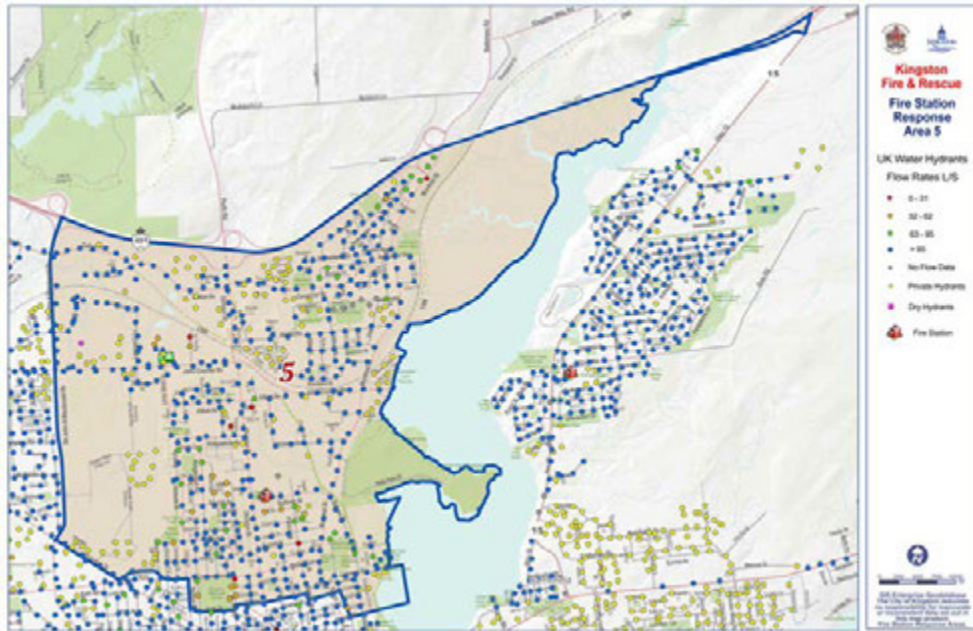
Picture of Station #3 Response Area water supply map:



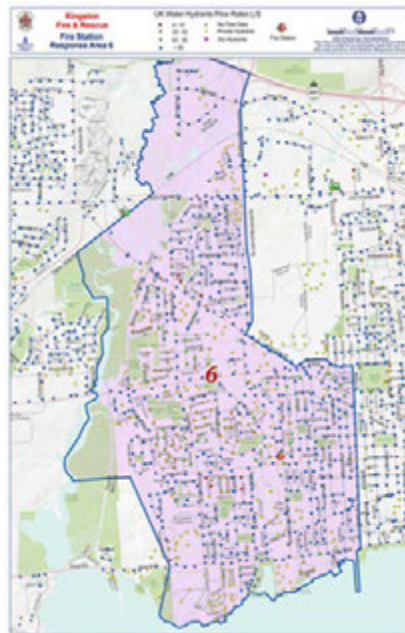
Picture of Station #4 Response Area water supply map:



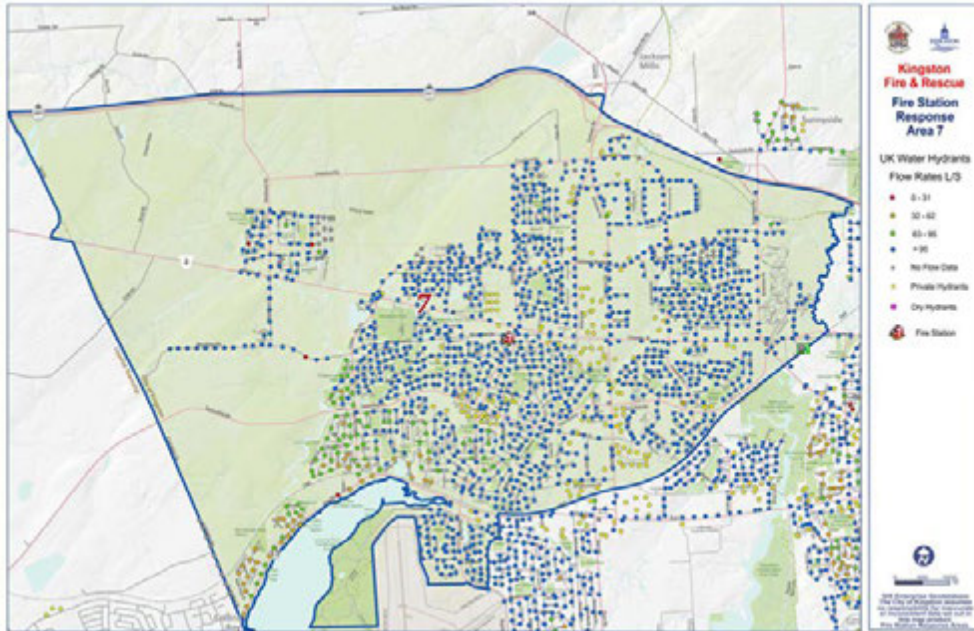
Picture of Station #5 Response Area water supply map:



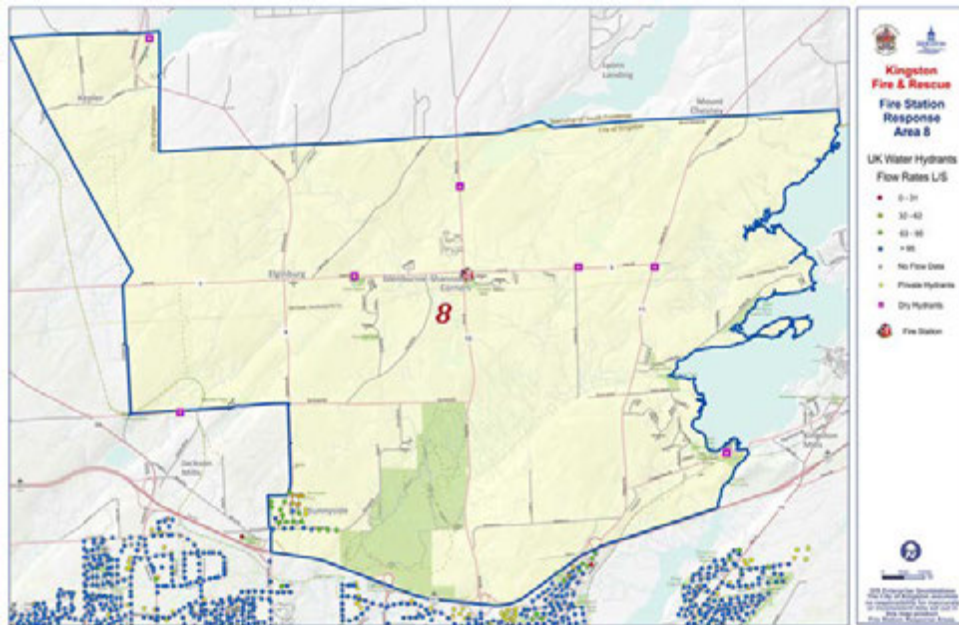
Picture of Station #6 Response Area water supply map:



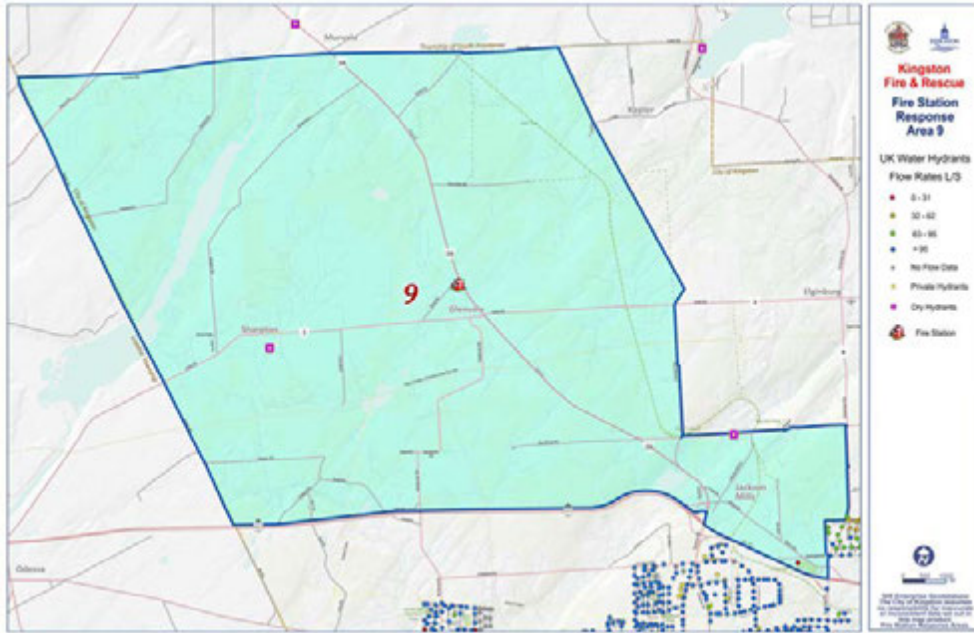
Picture of Station #7 Response Area water supply map:



Picture of Station #8 Response Area water supply map:



Picture of Station #9 Response Area water supply map:



Picture of Station #10 Response Area water supply map:

A II



Hazard Risk Assessment of the Community

The area that the Agency services has area characteristics that are different, yet unique in terms of the overall area of responsibility and associated response challenges. As part of the community risk assessment, the Agency has undertaken a comprehensive review of all fire and non-fire risks across the entire area served. A consistent methodology was used to assess and categorize risks across each geographic planning zones. The findings assisted the Agency in determining the provision of emergency services, based on risks. Strong consideration is given to the probability, consequence, impact to the Agency and to the community based on fires occurring within specific occupancy types. Certain occupancy types have prescribed fixed life safety systems and fire alarms that contribute to early detection and early alerting to aid in egress. However, additional resources may be required to assist occupants with exiting an occupancy.

Methodology Used to Determine Risks

The Agency identified the number and types of emergency responses over three years of historical data in each of the planning zones commencing in 2018 and ending in 2020. The Agency categorized the risk planning zone areas as rural or urban. Rural having no municipally provided pressurized water source from fire hydrants versus urban having a municipal source of supply.

The Agency analyzed the probability of past responses as a predictor of responses in the future. The more responses to a risk planning zone the more probability of future response.

The Agency assessed community impacts based on the occupancy types that are in each risk planning zone as well as the impact on resources based on the overall time spent at an emergency scene affecting the availability of resources for other emergency responses.

System performance was used to categorize risk-based consequences with the baseline performance against established and approved service benchmarks.

Meaning, arriving at the scene of an emergency within an acceptable standard is integral to stop the impacts of an emergency. Consequences of hazards were assessed and categorized based on the total number of hazard classifications delineated within a risk planning zone. See Appendix A for the breakdown of each geographic planning zone risk details.

Risk classification by Agency Response Area

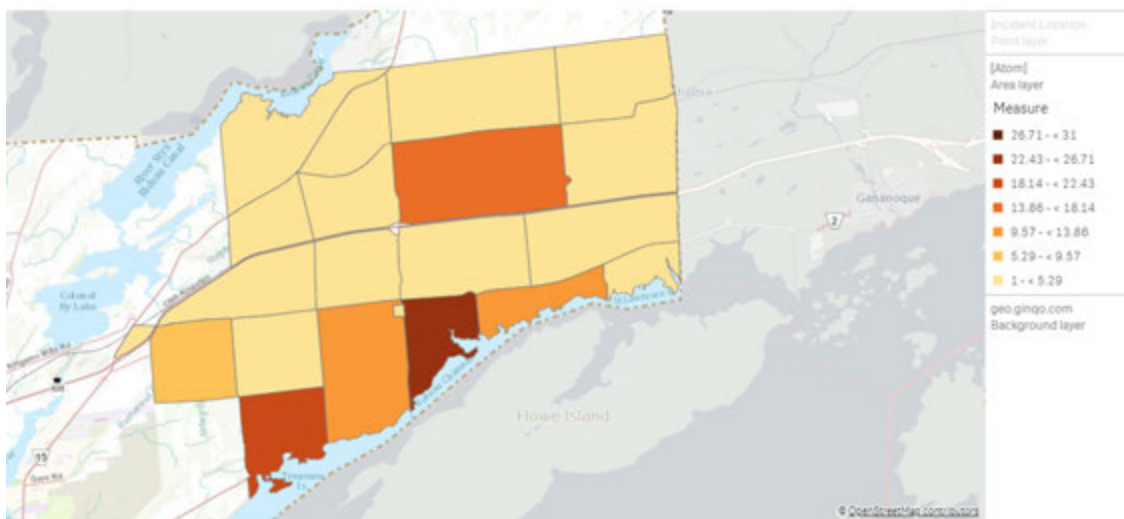
The Agency identified, assessed, and categorized the risks for each of the 10 station response areas using the 2018, 2019 and 2020 Agency response area data taking into consideration the total number of incidents, population, occupancy types, total road kilometres and the individual planning zone risk classifications within each station response area.

The following charts and maps illustrate the summary of risk data for each of the Agency's station response areas.

Station #1 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Low Impact/ Consequence: High	170	3,720	0	Rural	97	134
Atoms	114, 115, 117, 121, 122, 123, 124, 125, 126, 130, 131, 132, 133, 134, 135, 148, 149, 152, 632, 640, 645 (automatic aid)					

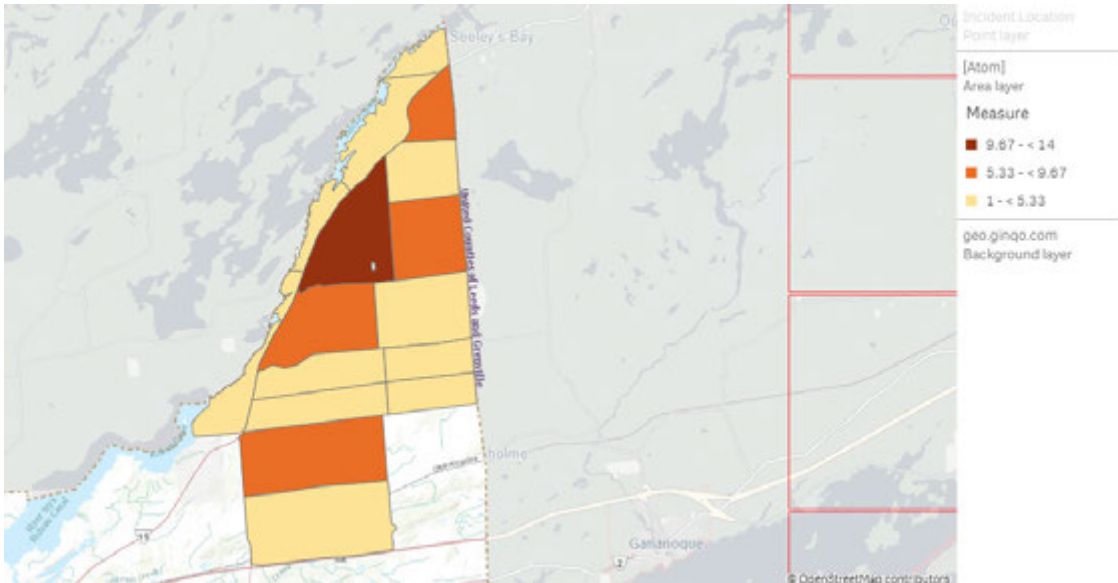
The following map illustrates the measure of 2018-2020 incidents in Station #1 Response Area.



Station #2 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Low Impact/ Consequence: High	68	1,929	0	Rural	70	62
Atoms	101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 116, 150, 155, 156					

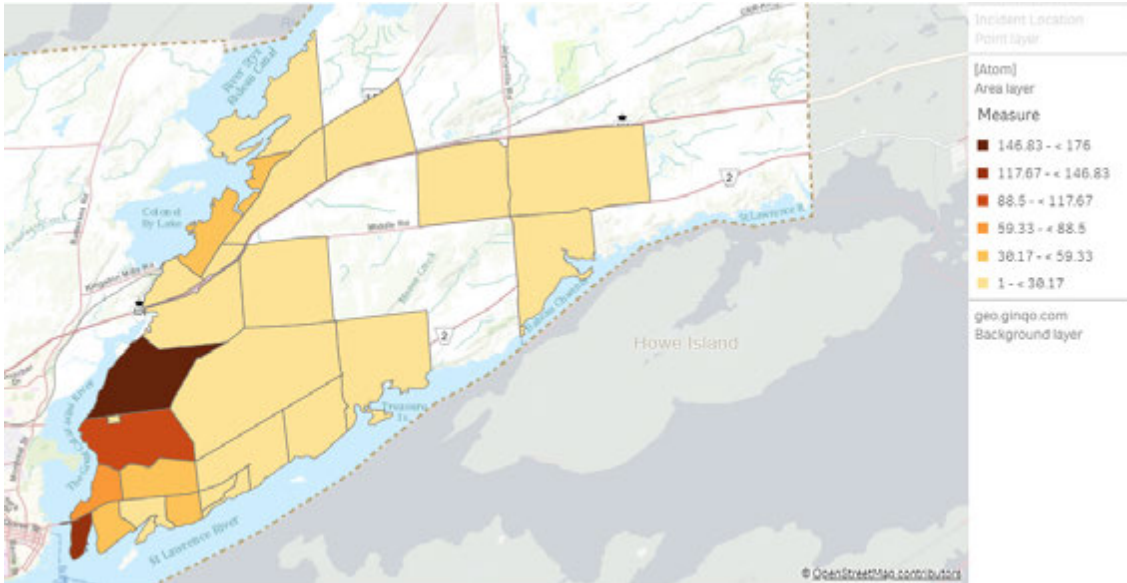
The following map illustrates the measure of 2018-2020 incidents in Station #2 Response Area.



Station #3 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Low Impact/ Consequence: High	844	10,651	3	Urban/Rural	44	154
Atoms	113, 118, 119, 120, 127, 128, 129, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 151, 153, 154, 623					

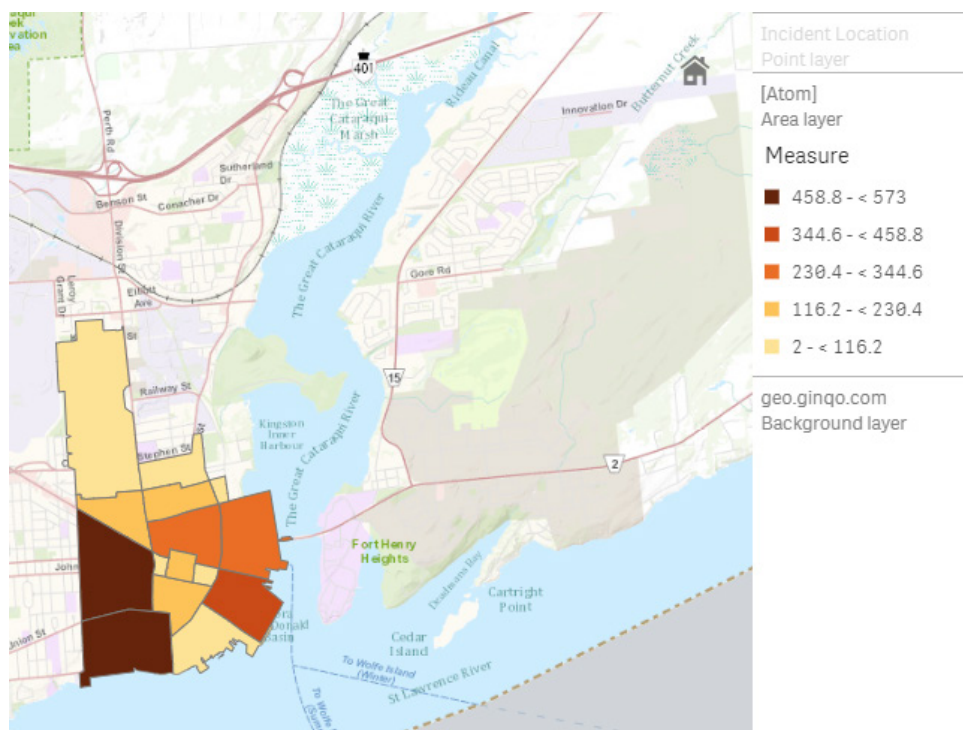
The following map illustrates the measure of 2018-2020 incidents in Station #3 Response Area.



Station #4 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Moderate Impact/ Consequence: High	2,842	22,610	5	Urban	4	53
Atoms	211, 224, 225, 226, 227, 228, 232, 233, 235, 236, 237, 239					

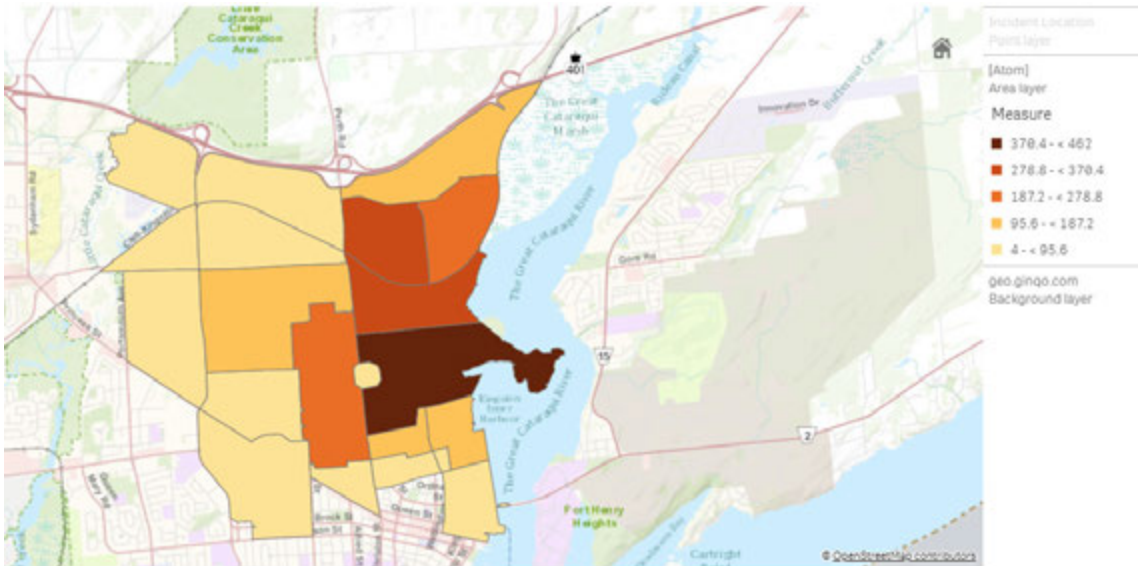
The following map illustrates the measure of 2018-2020 incidents in Station #4 Response Area.



Station #5 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Low Impact/ Consequence: High	2,526	16,910	8	Urban	14	102
Atoms	202, 203, 204, 207, 208, 209, 212, 213, 216, 217, 222, 223, 238, 240, 242, 613, 615, 617, 619, 623					

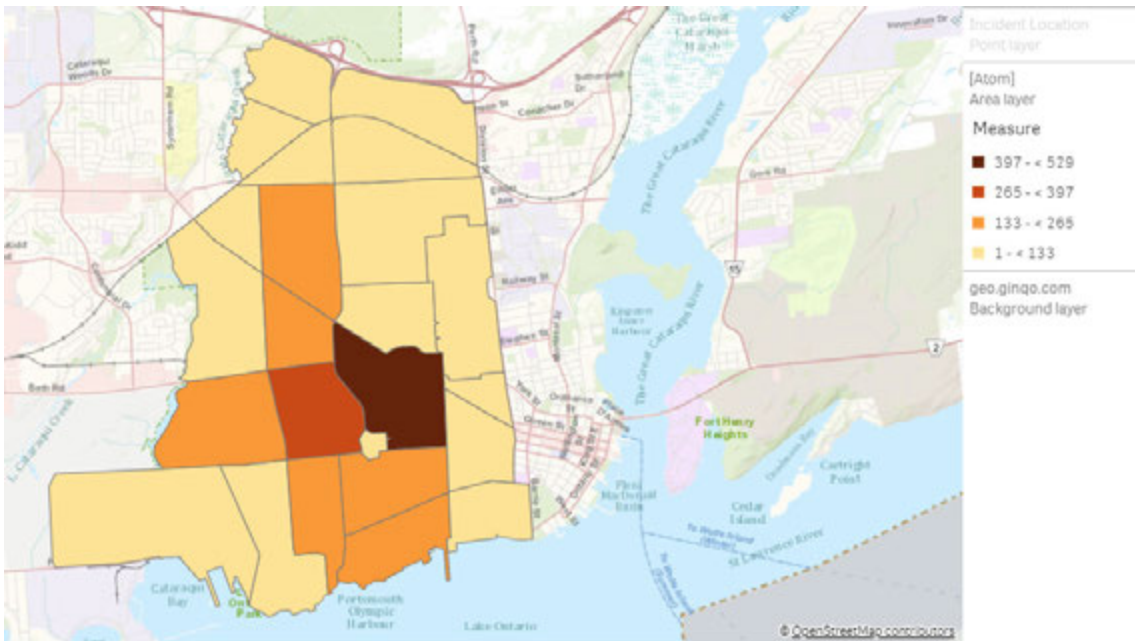
The following map illustrates the measure of 2018-2020 incidents in Station #5 Response Area.



Station #6 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Moderate Impact/ Consequence: High	2,500	24,593	21	Urban	14	113
Atoms	201, 205, 206, 210, 211, 214, 215, 218, 219, 220, 229, 230, 231, 234, 241					

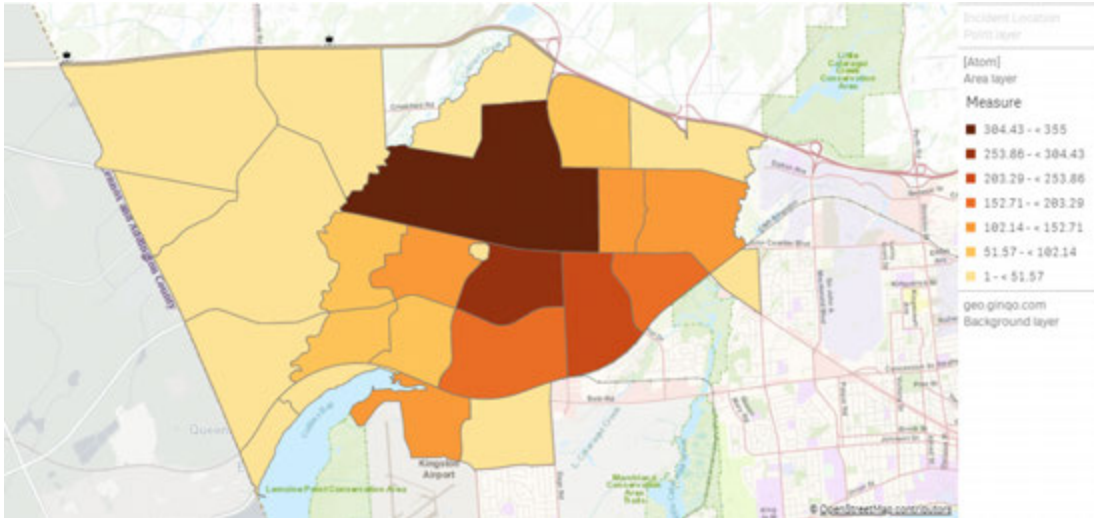
The following map illustrates the measure of 2018-2020 incidents in Station #6 Response Area.



Station #7 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Low Impact/ Consequence: Maximum	2,243	37,928	16	Urban/ Rural	49	274
Atoms	301, 302, 303, 304, 305, 306, 307, 308, 309, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 323, 324, 325, 338, 339, 603, 611, 613					

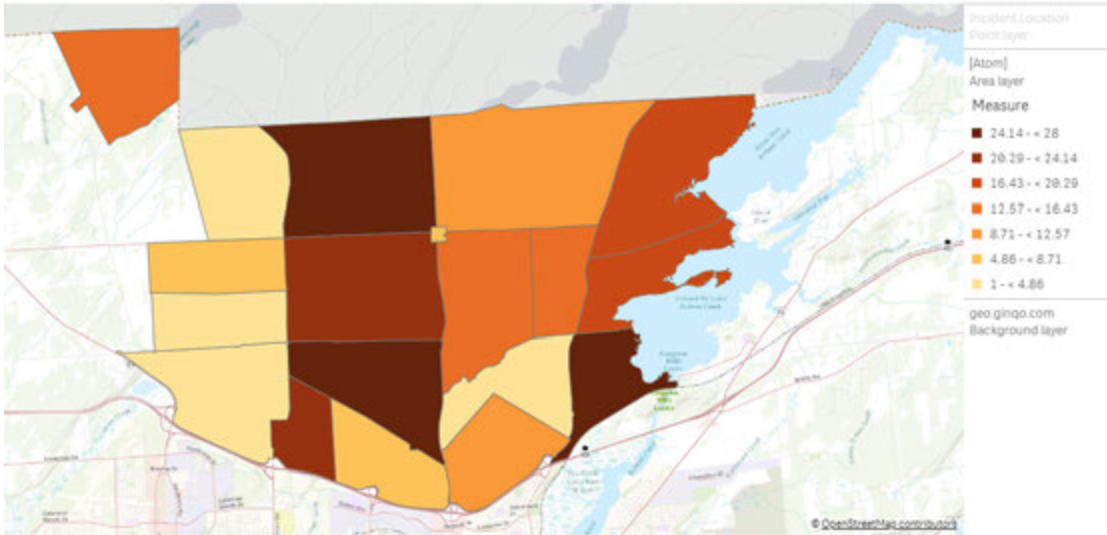
The following map illustrates the measure of 2018-2020 incidents in Station #7 Response Area.



Station #8 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Low Impact/ Consequence: High	249	5,294	1	Rural	77	108
Atoms	405, 412, 413, 414, 415, 420, 421, 422, 423, 424, 427, 428, 429, 430, 431, 432, 433, 435, 436					

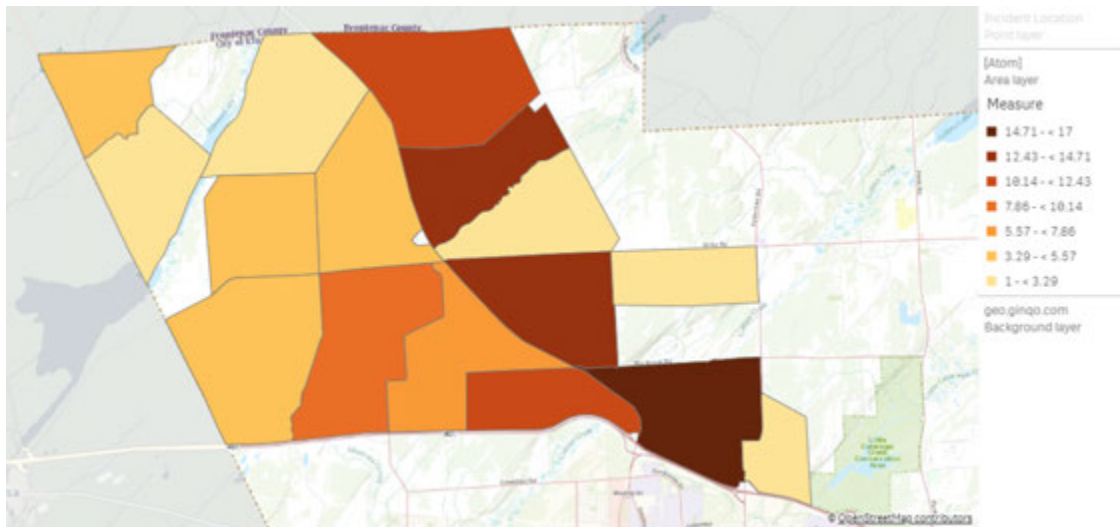
The following map illustrates the measure of 2018-2020 incidents in Station #8 Response Area.



Station #9 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Low Impact/ Consequence: High	110	2,250	0	Rural	71	67
Atoms	401, 402, 403, 404, 406, 407, 408, 409, 410, 411, 416, 417, 418, 419, 425, 426, 434, 437					

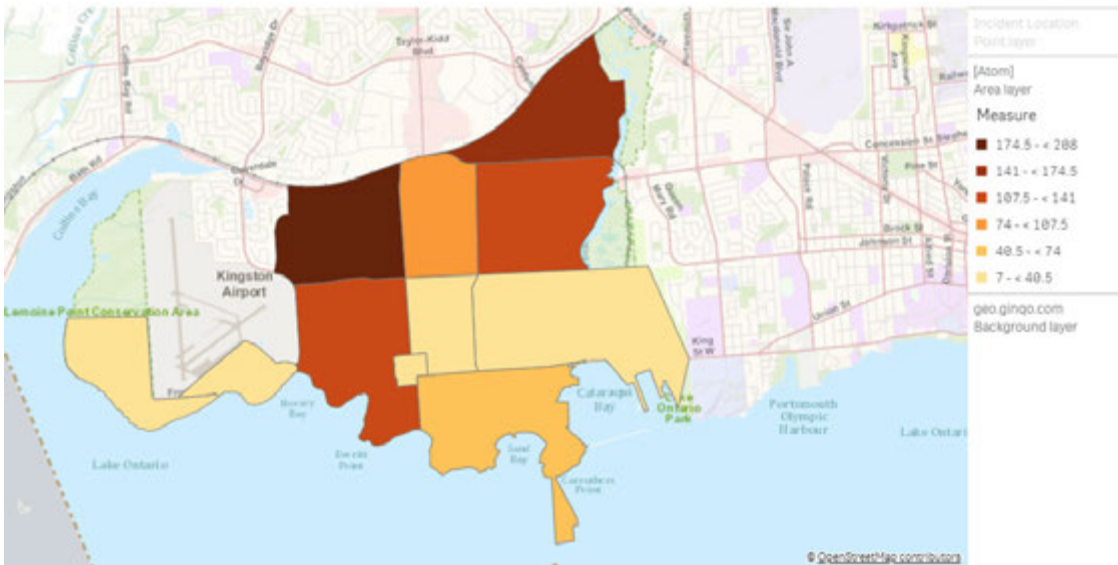
The following map illustrates the measure of 2018-2020 incidents in Station #9 Response Area.



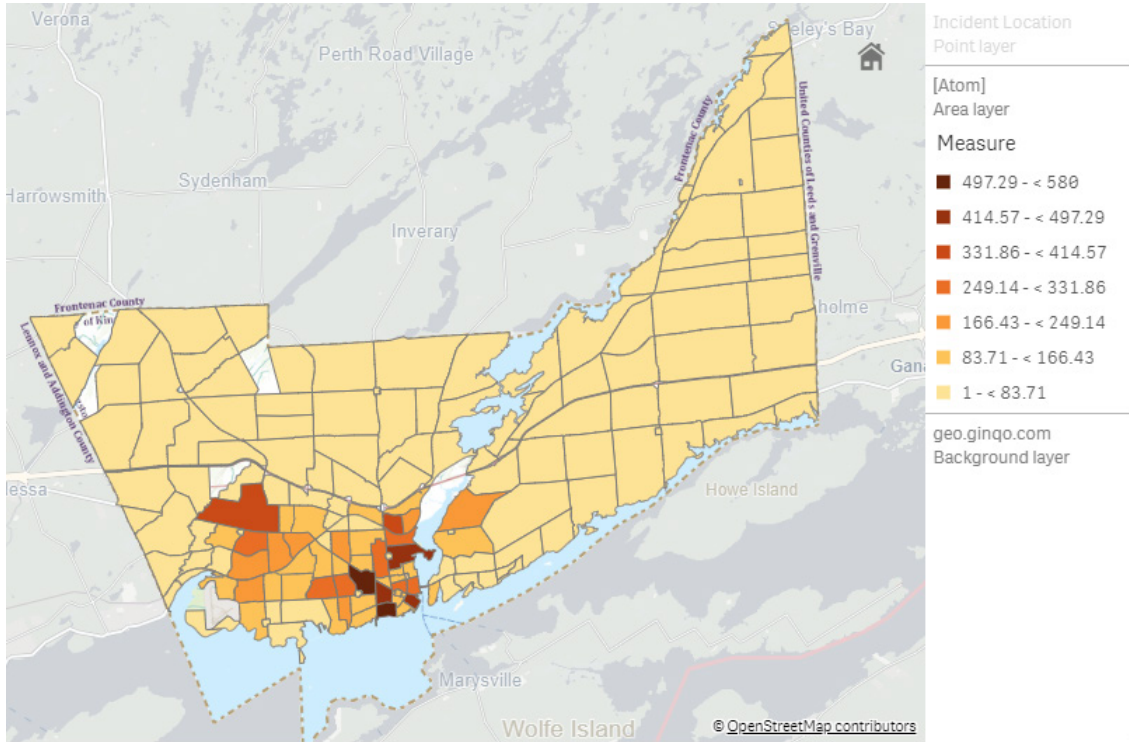
Station #10 Response Area

Response Area Risk Level	Incidents 2018-2020	Population	Vulnerable Occupancies and Care Facilities	Canada Census Population and Classification	Square Kilometers	Road Kilometers
Probability: Low Impact/ Consequence: High	827	11,187	9	Urban	15	85
Atoms	322, 326, 327, 328, 329(forms part of 328), 330, 331, 332, 333, 334, 335, 336, 340					

The following map illustrates 2018-2020 total incidents in the Agency's Response Area.



The following maps illustrate where the most prevalent incidents occurred in the Agency's response area in 2018-2020.



Malfunctioning Alarm Incidents

Highest Prevalence Malfunctioning Alarms



2018, 2019, 2020

Alcohol and Drug Related Incidents

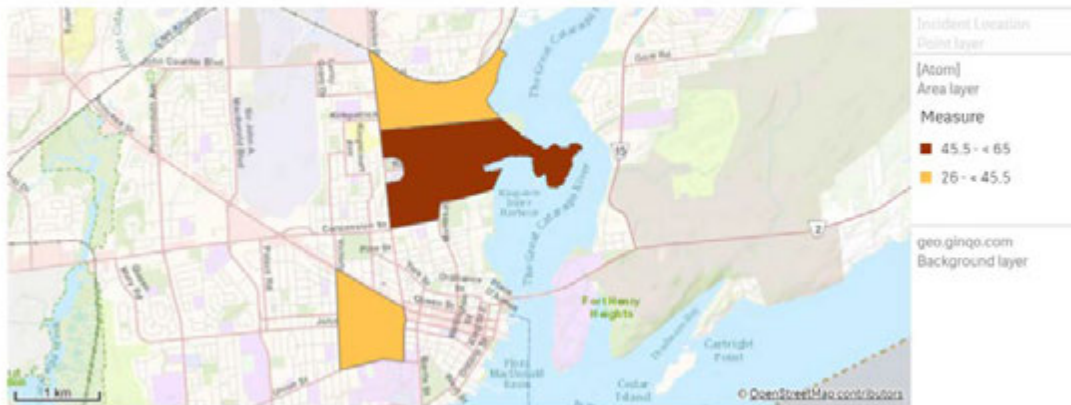
Highest Prevalence Alcohol and Drug Related Incidents



2018, 2019, 2020

Open Air Fire Incidents

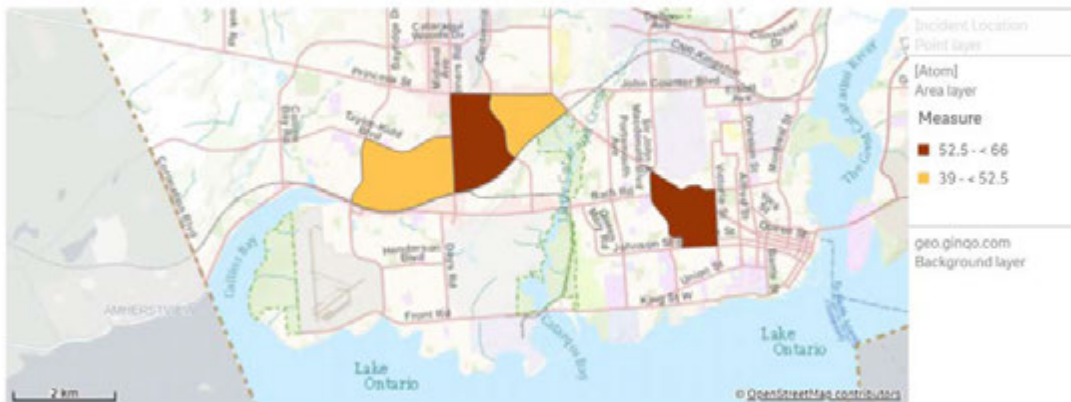
Highest Prevalence Open Air Fire Incidents



2018, 2019, 2020

Motor Vehicle Collision Incidents

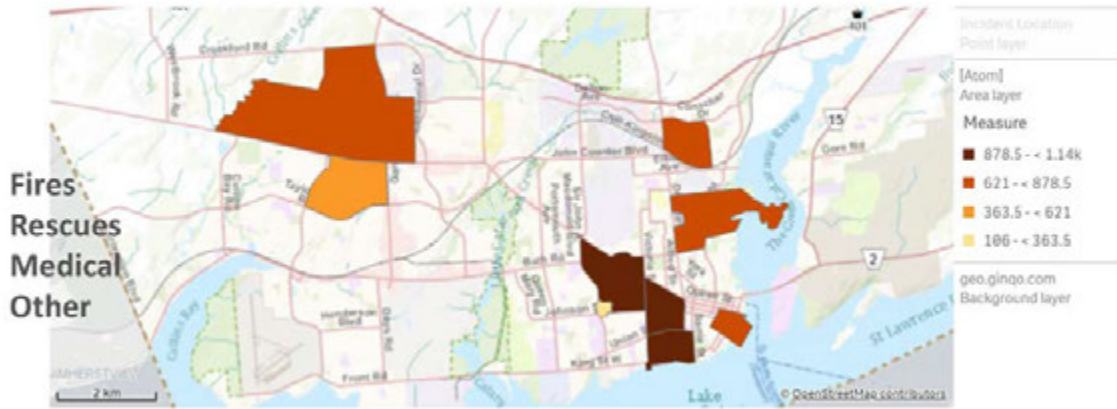
Highest Prevalence Motor Vehicle Collisions



2018, 2019, 2020

Highest Prevalence of All Incident Types

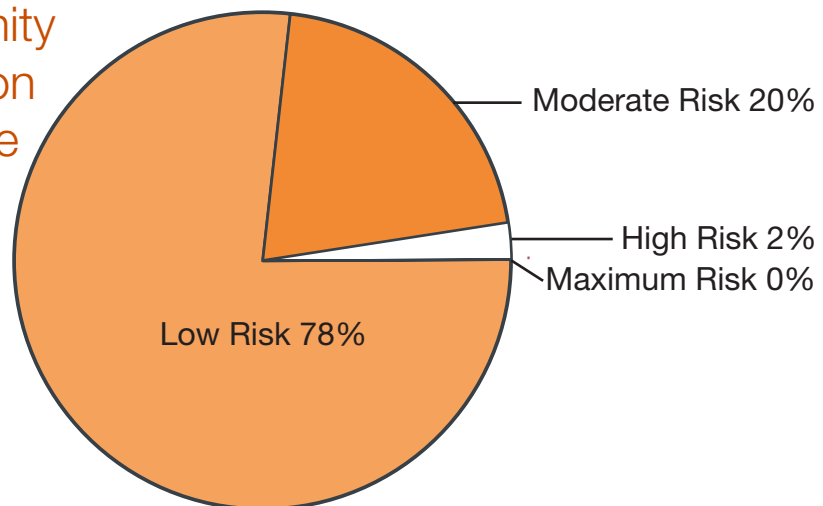
Highest Prevalence All Incident Types



2018, 2019, 2020

The following chart illustrates the overall risk classification measure of the probability, impact and consequence matrix in percentage for the Agency's Response Area as identified from the 2018-2020 data.

Overall Community Risk Classification for the Response Area



Community Feedback

The Agency conducted an online community stakeholder engagement between 14 April and 13 May 2021 to gather online input to determine, in the community's perspective, what the Agency is doing well and where the Agency can improve. The external community stakeholders represented various residents and businesses served by the Agency. The stakeholders were asked to relay feedback on expectations of the Agency their concerns for and about the services provided by the Agency and what they see are the strengths of the Agency.

The following is the response rate to the community stakeholder engagement process.

- 892 people visited “Get Involved Kingston” on the City of Kingston website during this period
- 794 visitors were aware of the KFR survey
- 450 visitors were informed participants
- 122 visitors were engaged and responded to the KFR survey
- A five-option Likert Scale was used to present the individual with an opportunity to express their agreement or disagreement with the questions or statements provided in the survey.

The following is the summary of research findings from the survey of community stakeholders.

Understanding of programs and services offered by the Agency:

- 68% stated they have a good to very good understanding.

What the Kingston community wants to know more about:

- Community/ personal emergency planning and preparedness (PEP) was the highest interest.

Areas to focus on improving:

- Continued community involvement by way of public engagement and events received the highest level of interest in terms of areas to improve.

Response times:

- 71% of respondents were satisfied to very satisfied with response times.

Customer service:

- 64% of respondents are satisfied with the interaction of KFR members from all divisions representing KFR.

Community outreach level of satisfaction:

- 49% of respondents were neither satisfied nor dissatisfied with KFR's Community Outreach, versus 51% of respondents who were satisfied with KFR's community outreach.

Areas of satisfaction:

- Response times
- Customer Service

Areas to Improve:

- Community Involvement
- Customer Service
- Community Outreach

What the AHJ community wants to know more about:

- Community/personal emergency planning and preparedness

Core findings from community stakeholder feedback:

- The AHJ community thinks favourably of the Agency in terms of response times and customer service orientation.
- The AHJ community would like to see the Agency increase the frequency of its community outreach and community involvement opportunities.
- The AHJ community is interested in learning more about personal emergency planning and preparedness.

Program Goals and Objectives

The Agency's strategic plan identifies the relationships required to support the goals and objectives informed by internal and external stakeholder feedback through the strategic planning process to strengthen the Agency's operational mission. Strategic plan content assists the Agency in determining value added, cost effective fire protection services that meet the needs and circumstances of the community, resulting from the feedback. In 2021, the following goals and objectives were developed from the external stakeholder feedback and a formal and documented program appraisal review through internal feedback as part of the strategic planning process:

- 1. Improve Community Engagement Opportunities**
The Agency will track and increase the frequency of community outreach and focus public education programming on the areas of concern as identified within the community risk assessment.
- 2. Improve Customer Service Opportunities**
The Agency will formally survey and report to residents on a range of performance measures in support of the Agency's and the Governing Body's strategic priorities commencing 2022.
- 3. Community Outreach**
The Agency will establish a career and volunteer firefighter recruitment outreach to all community members, while communicating the Agency's mission, vision and values to improve retention and engagement of Agency's responders.
- 4. Annual Performance Reporting**
Preparing and presenting the Agency's CRA-SOC annual performance report to external stakeholders through the Corporate Management Team and Governing Body.

5. Response Time and Station Location Study

The Agency will monitor the system performance for incremental changes in system performance that impact response times and optimize response capacity and performance.

6. Lifecycle Replacement – Physical Resources

The Agency will establish an annual formal process for the planning, replacement and acquisition of physical resources consistent with the AHJ's strategic plan for greenhouse gas reductions and community risks.

7. Performance Tracking and Reporting

The Agency will include the goals and objectives arising from the CRA-SOC and Strategic Plan to the Agency's organizational management (Cascade) software to track baseline improvement progress and results.

Formal Appraisals of Programs and Services

Internal stakeholder feedback was sought, and input was received through the 2021 formal program review to determine whether program and services met expectations, consistent with the Agency's adopted standard response goals and program objectives.

As part of the process, the Agency appraised the following programs and services:

- Wildland
- Hazmat
- Marine
- Tiered Medical Response
- Fire Suppression
- Tech Rescue
- Aviation
- Fire Prevention
- Emergency Management
- Communications
- Mechanical
- Training
- Health and Wellness

The program appraisal results indicated that some program refinement was required to assist the Agency more appropriately in meeting community needs and circumstances. As a result, the Agency will use the annual planning and review of community risks and stakeholder feedback to further improve upon and refine the delivery of program objectives.

Along with the program refinements, the Agency will utilize and leverage total response time data and community demographics to improve response times, reduce loss of life, property and environmental impacts. The Agency will place a stronger focus when developing fire and life safety education plans for demographic and persona profiles most at risk from fire loss.

Standards of Cover - Current Deployment and Performance

Fire Suppression

Fire Suppression Low Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all low risk fire suppression responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all low risk fire suppression responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.

- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 3 firefighters and 1 officer for 90% percent of all low risk fire suppression responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 5 firefighters and 1 officer for 80% percent of all low risk fire suppression responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- Agency Tankers carries 11,365 litres of water.

- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The following chart illustrates the Agency's fire suppression critical tasks for low risks:

Fire Suppression	Low Risk Dumpsters, Outbuildings (sheds), Electrical pole fires, Passenger vehicles	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Water Supply, Fire Attack (handline), Primary Search, Exposures	4
Total		4
Rural		
Tanker 1	Water supply (rural)	2
Total		2

Fire Suppression Moderate Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all moderate risk fire suppression responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all moderate risk fire suppression responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 11 firefighters and 5 officers for 90% percent of all moderate risk fire suppression responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 21 firefighters and 6 officers for 80% percent of all moderate risk fire suppression responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- Agency Tankers carries 11,365 litres of water.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The following chart illustrates the Agency's fire suppression critical tasks for moderate risks:

Fire Suppression	Moderate Risk Single Use Residential Occupancy, Row, Town, Semi- detached.	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Water Supply, Fire Attack, Search and Rescue, Forcible Entry	4
Pumper 2	Support Water Supply, Handline, Fire Attack, Search and Rescue	4
Pumper 3	On Deck (RIT), Exposures, Back up, Accountability	4
Platform 1	Elevated Platform Turntable, Pump Operations, Basket Operations	3
Command Unit	Assume / Establish Command Post, Incident Action Plan Development and Execution, Assignment of Tasks, Incident Management / Safety	1
Total		16
Rural		
Tanker 1	Set up and drop porta tanks, begin water shuttle	2
Tanker 2	Shuttle water from fill site to drop site	2
Tanker 3	Shuttle water from fill site to drop site	2
Shuttle Officer	Coordinate tankers with fill and dump site	1
Fill Site	Dry hydrant or static water source drafting	2
Dump Site	On ground for water dump from tankers	2
Total		11

Fire Suppression High Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all high risk fire suppression responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all high risk fire suppression responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 18 firefighters and 6 officers for 90% percent of all high risk fire suppression responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 28 firefighters and 7 officers for 80% percent of all high risk fire suppression responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- Agency Tankers carries 11,365 litres of water.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The following chart illustrates the Agency's fire suppression critical tasks for high risks:

Fire Suppression	High Risk High Risk multi-unit dwelling (less than 7 stories) > 2,500 - 10,000 sq ft.	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Water Supply, Fire Attack, Search and Rescue, Forcible Entry	4
Pumper 2	Support Water Supply, Handline, Fire Attack, Search and Rescue	4
Pumper 3	On Deck (RIT), Exposures, Back up, Accountability	4
Pumper 4	On Deck (RIT), Exposures, Back Up	4
Pumper 5	Rehabilitation/ Decontamination/Air Supply	4
Platform 1	Elevated Platform Turntable, Pump Operations, Basket Operations	3
Command Unit	Assume / Establish Command Post, Incident Action Plan Development and Execution, Assignment of Tasks, Incident Management / Safety	1
Total		24
Rural		
Tanker 1	Set up and drop porta tanks, begin water shuttle	2
Tanker 2	Shuttle water from fill site to drop site	2
Tanker 3	Shuttle water from fill site to drop site	2
Shuttle Officer	Coordinate tankers with fill and dump site	1
Fill Site	Dry hydrant or static water source drafting	2
Dump Site	On ground for water dump from tankers	2
Total		11

Fire Suppression Maximum Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all maximum risk fire suppression responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.

The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all maximum risk fire suppression responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 18 firefighters and 6 officers for 90% percent of all maximum risk fire suppression responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 28 firefighters and 7 officers for 80% percent of all maximum risk fire suppression responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carrying hose and equipment required to safely perform structural fire suppression operations and rescue activities.
- Agency Tankers carries 11,365 litres of water.
- The Agency establishes fireground command, secures a continuous water supply to ensure the safe extinguishment and overhaul of a fire scene as required for all low risk fire suppression responses in accordance with the Agency's Standard Operating Procedures.

The following chart illustrates the Agency's fire suppression critical tasks for maximum risks:

Fire Suppression	Maximum Risk	
	Hi-rise over 7 stories, vulnerable occupancies, institutional, explosions	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Water Supply, Fire Attack, Search and Rescue, Forcible Entry	4
Pumper 2	Support Water Supply, Handline, Fire Attack, Search and Rescue	4
Pumper 3	On Deck (RIT), Exposures, Back up, Accountability	4
Pumper 4	On Deck (RIT), Exposures, Back Up	3
Pumper 5	Rehabilitation/ Decontamination/Air Supply	4
Platform 1	Elevated Platform Turntable, Pump Operations, Basket Operations	4
Command Unit	Assume / Establish Command Post, Incident Action Plan Development and Execution, Assignment of Tasks, Incident Management / Safety	1
Total		24
Rural		
Tanker 1	Set up and drop porta tanks, begin water shuttle	2
Tanker 2	Shuttle water from fill site to drop site	2
Tanker 3	Shuttle water from fill site to drop site	2
Shuttle Officer	Coordinate tankers with fill and dump site	1
Fill Site	Dry hydrant or static water source drafting	2
Dump Site	On ground for water dump from tankers	2
Total		11

Fire Suppression Baseline Performance:

An initial (first on scene) fire apparatus response will be dispatched to low, moderate, high and maximum suppression risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The first on scene fire apparatus is often a fire pumper apparatus from the closest fire station. The fire pumper apparatus provides a minimum of four staff to initiate limited rescue and fire suppression capabilities in advance of the arrival of the remaining apparatus in accordance with standard operating procedures for suppression responses. The 90th percentile baseline total response time from 2018-2020 is 8 minutes, 24 seconds in the urban area and 15 minutes, 26 seconds within the rural area.

Additional responding fire apparatus (effective response force, ERF) will be dispatched to effectively mitigate the low, moderate, high and maximum suppression risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The arrival of all responding resources will effectively ensure the completion of all critical tasking related to fire suppression. The 2018-2020 90th percentile baseline total response time for the ERF to arrive is 9 minutes, 48 seconds in the urban area and 23 minutes, 2 seconds within the rural area.

The following chart illustrates the Agency's 2018, 2019, and 2020 fire suppression baseline performance times for all risk levels measured at the 90th percentile:

All Risk Levels Fire Suppression - 90th Percentile Times - Baseline Performance			2018-2020	2020	2019	2018
Alarm Handling	Pick-up to Dispatch	Urban	02:10	02:12	02:11	02:06
		Rural	02:28	02:35	02:12	02:23
Turnout Time	Turnout Time 1st Unit	Urban	01:57	01:58	01:54	02:00
		Rural	07:34	07:27	08:27	07:07
Travel Time	Travel Time 1st Unit Distribution	Urban	05:06	05:24	04:40	05:04
		Rural	08:34	08:36	07:37	08:17
	Travel Time ERF Concentration	Urban	06:21	06:32	06:11	06:19
		Rural	14:56	15:10	16:17	13:28
Total Response Time	Total Response Time 1st Unit on Scene Distribution	Urban	08:24	08:49	07:49	08:23
		Number of incidents	1,946	746	580	620
		Rural	15:26	16:20	14:36	15:44
		Number of incidents	205	84	61	60
	Total Response Time ERF Concentration	Urban	09:48	10:04	09:41	09:42
		Number of incidents	1,937	743	577	617
		Rural	23:02	24:33	22:54	21:43
		Number of incidents	204	84	60	60

Emergency Medical Services (Medical)

Medical Low Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all low risk medical responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all low risk medical responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 3 firefighters and 1 officer for 90% percent of all low risk medical responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 3 firefighters and 1 officer for 80% percent of all low risk medical responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

The following chart illustrates the Agency's medical response critical tasks for low risks:

Medical	Low Risk Basic life support	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Patient Care, Communications, Safety	4
	Total	4

Medical Moderate Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all moderate risk medical responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all moderate risk medical responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 3 firefighters and 1 officer for 90% percent of all moderate risk medical responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 3 firefighters and 1 officer for 80% percent of all moderate risk medical responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

The following chart illustrates the Agency's medical response critical tasks for moderate risks:

Medical	Moderate Risk Multiple historical responses requiring the full ems system, fire and paramedics, paramedics transporting.	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Patient Care, Communications, Safety	4
	Total	4

Medical High Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all high risk medical responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all high risk medical responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 3 firefighters and 1 officer for 90% percent of all high risk medical

responses. The Agency’s total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- Agency’s Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency’s Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 3 firefighters and 1 officer for 80% percent of all high risk medical responses. The Agency’s total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- Agency’s Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency’s Standard Operating Procedures.

The following chart illustrates the Agency’s medical response critical tasks for high risks:

Medical	High Risk Injuries involving medical assistance to multiple persons (senior’s residence without care available, outbreak)	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Patient Care, Communications, Safety	4
Total		4

Medical Maximum Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all maximum risk medical responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all maximum risk medical responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- Agency's Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed

with 3 firefighters and 1 officer for 90% percent of all maximum risk medical responses. The Agency’s total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- Agency’s Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency’s Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 3 firefighters and 1 officer for 80% percent of all maximum risk medical responses. The Agency’s total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- Agency’s Fire Pumper Apparatus carries medical equipment to support basic life support and trauma care. All agency pumpers carry vehicle extrication equipment to stabilize a patient, a vehicle and accident scene.
- The Agency establishes command, assesses responder, patient, and scene safety, and provide basic life support medical care for all low risk medical responses in accordance with the Agency’s Standard Operating Procedures.

The following chart illustrates the Agency’s medical response critical tasks for maximum risks:

Medical	Maximum Risk Casualties with 3 or more persons, mass shootings, disasters with multiple injuries -tiered medical response. Any medical falls under tiered response. A ‘disaster’ mass casualty would include response for other duties.	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Patient Care, Communications, Safety	4
Total		4

Medical Baseline Performance

An initial (first on scene) fire apparatus response will be dispatched to low, moderate, high and maximum medical risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The first on scene fire apparatus is often a fire pumper apparatus from the closest fire station. The fire pumper apparatus provides a minimum of four staff to initiate first responder medical care and follows the direction of the subsequent arriving Paramedic in accordance with the AHJ's Tiered Medical Agreement. The 90th percentile first on scene baseline total response time from 2018-2020 is 7 minutes, 8 seconds in the urban area and 14 minutes, 26 seconds within the rural area.

Additional responding fire apparatus (effective response force, ERF) will be dispatched upon request of the first arriving apparatus to effectively mitigate the low, moderate, high and medical risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The arrival of all responding resources will effectively ensure the completion of all critical tasking related to medical risks. The 2018-2020 90th percentile baseline total response time for the ERF to arrive is 7 minutes, 14 seconds in the urban area and 15 minutes, 12 seconds within the rural area.

The following chart illustrates the Agency's 2018, 2019, and 2020 emergency medical services baseline performance times for all risk levels of measured at the 90th percentile:

All Risk Levels Emergency Medical Services- 90th Percentile Times - Baseline Performance			2018-2020	2020	2019	2018
Alarm Handling	Pick-up to Dispatch	Urban	01:09	01:05	01:08	01:15
		Rural	01:27	01:20	01:01	01:42
Turnout Time	Turnout Time 1st Unit	Urban	02:02	02:01	02:00	02:07
		Rural	07:27	07:43	07:12	07:23
Travel Time	Travel Time 1st Unit Distribution	Urban	04:34	04:40	04:37	04:32
		Rural	08:15	08:11	08:39	08:21
	Travel Time ERF Concentration	Urban	04:39	04:42	04:41	04:32
		Rural	09:17	08:17	10:27	09:17
Total Response Time	Total Response Time 1st Unit on Scene Distribution	Urban	07:08	07:13	07:10	06:57
		Number of incidents	3,034	1,006	1,019	1,009
		Rural	14:26	14:02	14:27	14:36
		Number of incidents	161	55	48	58
	Total Response Time ERF Concentration	Urban	07:14	08:18	07:13	07:13
		Number of incidents	3,004	1,056	1,008	995
		Rural	15:12	15:23	15:06	15:03
		Number of incidents	159	53	48	58

Aviation

Aviation Low Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all low risk aviation responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.
- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all low risk aviation responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.

- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 6 firefighters and 2 officers for 90% percent of all low risk aviation responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.
- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 6 firefighters and 2 officers for 80% percent of all low risk aviation responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.

- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The following chart illustrates the Agency’s aviation response critical tasks for low risks:

Aviation	Low Risk Small private aircraft leaking fluids outside aircraft hanger.	
Apparatus	Critical Tasks	Personnel
Pumper 1	Incident Command, Size up, Water Supply, Fluid Containment, Safety	4
Pumper 2	Aircraft Stabilization, Environmental Protection	4
Total		8

Aviation Moderate Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all moderate risk aviation responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.
- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all moderate risk aviation responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.

- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 19 firefighters and 5 officers for 90% percent of all moderate risk aviation responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.
- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 19 firefighters and 5 officers for 80% percent of all moderate risk aviation responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.
- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The following chart illustrates the Agency's aviation response critical tasks for moderate risks:

Aviation	Moderate Risk Commercial or private aircraft hard landing, fire/spill, on runway	
Apparatus	Critical Tasks	Personnel
Pumper 1	Incident Command, Size up, Water Supply, Fluid Containment, Safety	4
Pumper 2	Aircraft Stabilization, Environmental Protection	4
Pumper 3	Medical care	4
Chief Officer	Incident Command	1
Tanker 1	Set up and drop porta tanks, begin water shuttle	2
Tanker 2	Shuttle water from fill site to drop site	2
Tanker 3	Shuttle water from fill site to drop site	2
Shuttle Officer	Coordinate tankers with fill and dump site	1
Fill Site	Dry hydrant or static water source drafting	2
Dump Site	On ground for water dump from tankers	2
Total		24

Aviation High Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all high risk aviation responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.
- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all high risk aviation responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.

- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 19 firefighters and 5 officers for 90% percent of all high risk aviation responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.
- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 19 firefighters and 5 officers for 80% percent of all high risk aviation responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.

- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The following chart illustrates the Agency’s aviation response critical tasks for high risks:

Aviation	High Risk	
	Larger commercial aircraft crash with potential injury, fire, in aerodrome	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Water Supply, Fire Attack with Handline, Search and Rescue – Plane or primary impact area	4
Pumper 2	Exposure Search and Rescue, Fire Attack with Handline for Exposures	4
Pumper 3	Medical care	4
Chief Officer	Incident Command	1
Tanker 1	Set up and drop porta tanks, begin water shuttle	2
Tanker 2	Shuttle water from fill site to drop site	2
Tanker 3	Shuttle water from fill site to drop site	2
Shuttle Officer	Coordinate tankers with fill and dump site	1
Fill Site	Dry hydrant or static water source drafting	2
Dump Site	On ground for water dump from tankers	2
	Total	24

Aviation Maximum Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all maximum risk aviation responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

- The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.
- The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all maximum risk aviation responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.

The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply

of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 19 firefighters and 5 officers for 90% percent of all maximum risk aviation responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides trained firefighters and site specific equipment for a response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.

The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 19 firefighters and 5 officers for 80% percent of all maximum risk aviation responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 second.

The Agency provides trained firefighters and site specific equipment for response to an aviation incident at Kingston International Airport and across the area of responsibility. Agency pumpers carry vapour suppressing foam and 1900 litres of water flowing 6000 litres per minute to safely perform aircraft fire suppression and aircraft rescue activities.

The aviation response by the Agency involves establishing overall command in and around the incident scene, ensuring an initial and continuous supply of extinguishing agents and water and secures master streams. A dedicated communication link to the air traffic control tower is established to ensure a continuous communication with Airport officials and the incident commander.

The following chart illustrates the Agency’s aviation response critical tasks for maximum risks:

Aviation	Maximum Risk	
	Commercial plane crash, multiple victims outside airport property in highly populated area	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Water Supply, Fire Attack with Handline, Search and Rescue – Plane or primary impact area	4
Pumper 2	Exposure Search and Rescue, Fire Attack with Handline for Exposures	4
Pumper 3	Medical care	4
Chief Officer	Incident Command	1
Tanker 1	Set up and drop porta tanks, begin water shuttle	2
Tanker 2	Shuttle water from fill site to drop site	2
Tanker 3	Shuttle water from fill site to drop site	2
Shuttle Officer	Coordinate tankers with fill and dump site	1
Fill Site	Dry hydrant or static water source drafting	2
Dump Site	On ground for water dump from tankers	2
	Total	24

Aviation Baseline Performance

An initial (first on scene) fire apparatus response will be dispatched to low, moderate, high and maximum aviation risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The first on scene fire apparatus is often a fire pumper apparatus from the nearest fire station. The fire pumper apparatus provides a minimum of four staff to initiate limited aviation response capabilities in advance of the arrival of the remaining apparatus in accordance with standard operating procedures for aviation responses. The 90th percentile baseline total response time from 2018-2020 is 5 minutes, 55 seconds across all areas of the AHJ.

Additional responding fire apparatus (effective response force, ERF) will be dispatched to effectively mitigate the low, moderate, high and maximum aviation risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The arrival of all responding resources will effectively ensure the completion of all ERF critical tasking related to aviation incidents. The 2018-2020 90th percentile baseline total response time for the ERF to arrive is 16 minutes, 22 seconds across all areas of the AHJ.

The following chart illustrates the Agency's 2018, 2019, and 2020 aviation baseline performance times for all risk levels measured at the 90th percentile:

All Risk Level Aviation - 90th Percentile Times - Baseline Performance			2018-2020	2020	2019	2018
Alarm Handling	Pick-up to Dispatch	Urban	01:41	01:46	00:00	01:04
		Rural	00:00	00:00	00:00	00:00
Turnout Time	Turnout Time 1st Unit	Urban	01:37	01:17	00:00	01:40
		Rural	00:00	00:00	00:00	00:00
Travel Time	Travel Time 1st Unit Distribution	Urban	03:10	02:43	00:00	03:13
		Rural	00:00	00:00	00:00	00:00
	Travel Time ERF Concentration	Urban	09:10	02:22	00:00	10:28
		Rural	00:00	00:00	00:00	00:00
Total Response Time	Total Response Time 1st Unit on Scene Distribution	Urban	05:55	05:46	00:00	05:57
		Number of incidents	2	1	0	=1
		Rural	00:00	00:00	00:00	00:00
	Total Response Time ERF Concentration	Number of incidents	0	0	0	N=0
		Urban	16:22	07:42	00:00	16:28
		Number of incidents	2	1	1	N=1
		Rural	00:00	00:00	00:00	00:00
Number of incidents	0	0	0	N=0		

Hazardous Materials (Hazmat)

Hazmat Low Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all low risk hazmat responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk hazardous materials incidents. The response will ensure command is established to ensure scene safety while the material is secured for recovery and clean up in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all low risk hazmat responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk hazardous materials incidents. The response will ensure command is established to ensure scene safety while the material is secured for recovery and clean up in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 3 firefighters and 1 officer for 90% percent of all low risk hazmat responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk hazardous materials incidents. The response will ensure command is established to ensure scene safety while the material is secured for recovery and clean up in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 3 firefighters and 1 officer for 80% percent of all low risk hazmat responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk hazardous materials incidents. The response will ensure command is established to ensure scene safety while the material is secured for recovery and clean up in accordance with the Agency's Standard Operating Procedures.

The following chart illustrates the Agency's hazmat response critical tasks for low risks:

Technical Hazmat	Low Risk Suspicious Powder, Backyard pool, Outside agency support	
	Apparatus	Critical Tasks
Pumper 1	Size up, Communications, Zone Establishment, Evacuation	4
	Total	4

Hazmat Moderate Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all moderate risk hazmat responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to moderate risk hazardous materials incidents. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate, to effectively mitigate the incident. The established unified command will assess any conditions that could negatively impact the safe resolution of the hazardous materials release in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all moderate risk hazmat responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to moderate risk hazardous materials incidents. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate, to effectively mitigate the incident. The established unified command will assess any conditions that could negatively impact the safe resolution of the hazardous materials release in accordance with the Agency's Standard Operating Procedures and legislative regulations.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 13 firefighters and 6 officers for 90% percent of all moderate risk hazmat responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides fire apparatus carrying staff and equipment for an urban response involving moderate risk hazardous materials incidents. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate to effectively mitigate the incident. The established unified command will ensure and communicate hot, warm and cold zones. Command will establish and direct the required level of personal protection equipment to be worn within the established zones and set up decontamination for responders and affected persons. The Agency will ensure that hazardous materials are controlled and secured for removal. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the hazardous materials incident in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 13 firefighters and 6 officers for 80% percent of all moderate risk hazmat responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for a rural response involving moderate risk hazardous materials incidents. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate to effectively mitigate the incident. The established unified command will ensure and communicate hot, warm and cold zones.

Command will establish and direct the required level of personal protection equipment to be worn within the established zones and set up decontamination for responders and affected persons. The Agency will ensure that hazardous materials are controlled and secured for removal. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the hazardous materials incident in accordance with the Agency’s Standard Operating Procedures and legislative regulations.

The following chart illustrates the Agency’s hazmat response critical tasks for moderate risks:

Technical Hazmat	Moderate Risk Suspicious Powder, Backyard pool, Outside agency support	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Communications, Zone Establishment, Evacuation	4
Pumper 2	Scene stabilization, Zone Control, Access and Evacuation from Hot Zone, Decontamination prep, Casualty refuge, Water supply, Air Supply.	4
Pumper 3	Hot zone work, Entry control / air monitoring, containment and mitigation of leaks, rescue ops.	4
Pumper 4		4
Roll Off	Provision of suits, hazmat equipment and supplies	1
Chief Officer	Incident Command	1
Safety Officer	Scene Safety	1
Total		19

Hazmat High Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all high risk hazmat responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to high risk hazardous materials incidents in the urban area. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate, to effectively mitigate the incident. The established unified command will assess any conditions that could negatively impact the safe resolution of the hazardous materials release in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all high risk hazmat responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to a high risk hazardous materials incident in the rural area. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate, to effectively mitigate the incident. The established unified command will assess any conditions that could negatively impact the safe resolution of the hazardous materials release in accordance with the Agency's Standard Operating Procedures and legislative regulations.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 13 firefighters and 6 officers for 90% percent of all high risk hazmat responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for an urban response involving high risk hazardous materials incidents. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate to effectively mitigate the incident. The established unified command will ensure and communicate hot, warm and cold zones. Command will establish and direct the required level of personal protection equipment to be worn within the established zones and set up decontamination for responders and affected persons. The Agency will ensure that hazardous materials are controlled and secured for removal. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the hazardous materials incident in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 13 firefighters and 6 officers for 80% percent of all high risk hazmat responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for a rural response involving high risk hazardous materials incidents. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate to effectively mitigate the incident. The established unified command will ensure and communicate hot, warm and cold zones. Command

will establish and direct the required level of personal protection equipment to be worn within the established zones and set up decontamination for responders and affected persons. The Agency will ensure that hazardous materials are controlled and secured for removal. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the hazardous materials incident in accordance with the Agency’s Standard Operating Procedures and legislative regulations.

The following chart illustrates the Agency’s hazmat response critical tasks for high risks:

Technical Hazmat	High Risk History of responses where acutely hazardous material requiring encapsulating of the workers and specialized teams	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Communications, Zone Establishment, Evacuation	4
Pumper 2	Scene stabilization, Zone Control, Access and Evacuation from Hot Zone, Decontamination prep, Casualty refuge, Water supply, Air Supply.	4
Pumper 3	Hot zone work, Entry control / air monitoring, containment and mitigation of leaks, rescue ops.	4
Pumper 4		4
Roll Off	Provision of suits, hazmat equipment and supplies	1
Chief Officer	Incident Command	1
Safety Officer	Scene Safety	1
Total		19

Hazmat Maximum Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all maximum risk hazmat responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to maximum risk hazardous materials incidents in the urban area. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate, to effectively mitigate the incident. The established unified command will assess any conditions that could negatively impact the safe resolution of the hazardous materials release in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all maximum risk hazmat responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds. The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to maximum risk hazardous materials incidents in the rural area. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate, to effectively mitigate the incident. The established unified command will assess any conditions that could negatively impact the safe resolution of the hazardous materials release in accordance with the Agency's Standard Operating Procedures and legislative regulations.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 13 firefighters and 6 officers for 90% percent of all maximum risk hazmat responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for an urban response involving maximum risk hazardous materials incidents. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate to effectively mitigate the incident. The established unified command will ensure and communicate hot, warm and cold zones. Command will establish and direct the required level of personal protection equipment to be worn within the established zones and set up decontamination for responders and affected persons. The Agency will ensure that hazardous materials are controlled and secured for removal. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the hazardous materials incident in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 13 firefighters and 6 officers for 80% percent of all maximum risk hazmat responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for a rural response involving maximum risk hazardous materials incidents. Agency responders will ensure a unified command is established and any additional community resources and/or agencies are considered and notified where appropriate to effectively mitigate the incident. The established unified command will ensure and communicate hot, warm and cold zones.

Command will establish and direct the required level of personal protection equipment to be worn within the established zones and set up decontamination for responders and affected persons. The Agency will ensure that hazardous materials are controlled and secured for removal. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the hazardous materials incident in accordance with the Agency’s Standard Operating Procedures and legislative regulations.

The following chart illustrates the Agency’s hazmat response critical tasks for maximum risks:

Technical Hazmat	Maximum Risk CBRN terrorist or WMD	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Communications, Zone Establishment, Evacuation	4
Pumper 2	Scene stabilization, Zone Control, Access and Evacuation from Hot Zone, Decontamination prep, Casualty refuge, Water supply, Air Supply.	4
Pumper 3	Hot zone work, Entry control / air monitoring, containment and mitigation of leaks, rescue ops.	4
Pumper 4		4
Roll Off	Provision of suits, hazmat equipment and supplies	1
Chief Officer	Incident Command	1
Safety Officer	Scene Safety	1
Total		19

Hazmat Baseline Performance

An initial (first on scene) fire apparatus response will be dispatched to low, moderate, high and maximum hazardous material risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The first on scene fire apparatus is often a fire pumper apparatus from the closest fire station. The fire pumper apparatus provides a minimum of four staff to initiate a limited hazardous material response in advance of the arrival of the remaining apparatus in accordance with standard operating procedures for hazardous material responses. The 90th percentile baseline total response time from 2018-2020 is 8 minutes, 12 seconds across all areas of the AHJ.

Additional responding fire apparatus (effective response force, ERF) will be dispatched to effectively mitigate the low, moderate, high and maximum hazardous material risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The arrival of all responding resources will effectively ensure the completion of all critical tasking related to hazardous materials response. The 2018-2020 90th percentile baseline total response time for the ERF to arrive is 18 minutes, 12 seconds across all areas of the AHJ.

The following chart illustrates the Agency's 2018, 2019, and 2020 hazardous material baseline performance times for all risk levels measured at the 90th percentile:

All Risk Levels Hazardous Materials - 90th Percentile Times - Baseline Performance			2018-2020	2020	2019	2018
Alarm Handling	Pick-up to Dispatch	Urban	03:14	02:20	04:01	02:24
		Rural	00:00	00:00	00:00	00:00
Turnout Time	Turnout Time 1st Unit	Urban	02:01	01:52	02:40	01:54
		Rural	00:00	00:00	00:00	00:00
Travel Time	Travel Time 1st Unit Distribution	Urban	03:46	03:21	03:44	04:34
		Rural	00:00	00:00	00:00	00:00
	Travel Time ERF Concentration	Urban	10:09	09:23	15:22	10:23
		Rural	00:00	00:00	00:00	00:00
Total Response Time	Total Response Time 1st Unit on Scene Distribution	Urban	08:12	06:47	08:47	08:12
		Number of incidents	19	7	5	7
		Rural	00:00	00:00	00:00	00:00
	Total Response Time ERF Concentration	Number of incidents	0	0	0	0
		Urban	18:12	13:54	22:04	17:39
		Number of incidents	19	7	5	7
		Rural	00:00	00:00	00:00	00:00
Number of incidents	0	0	0	0		

Technical Rescue

Technical Rescue Low Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all low risk technical rescue responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk technical rescue incidents in the urban areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all low risk technical rescue responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk technical rescue incidents in the rural areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 3 firefighters and 1 officer for 90% percent of all low risk technical rescue responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk technical rescue incidents in the urban areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 3 firefighters and 1 officer for 80% percent of all low risk technical rescue responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk technical rescue incidents in the rural areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

The following chart illustrates the Agency's technical rescue response critical tasks for low risks:

Technical Rescue	Low Risk Elevator Rescue, Public Assists	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Communications, Safety, Incident stabilization, Patient Care	4
	Total	4

Technical Rescue Moderate Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all low risk technical rescue responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in t

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to moderate risk technical rescue incidents in the urban areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all low risk technical rescue responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to moderate risk technical rescue incidents in the rural areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 7 firefighters and 2 officers for 90% percent of all low risk technical rescue responses. The Agency's total response time benchmark for the arrival the ERF

in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides fire apparatus carrying staff and equipment for an urban response involving moderate risk technical rescue incidents. Agency responders will ensure a unified command is established and any additional technical rescue resources and/or agencies are considered and notified where appropriate to effectively carry out the rescue. Command will establish and direct the required level of personal protection equipment to be worn for the technical rescue and ensuring staging of technical rescue equipment and medical triage for responders and affected persons. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the technical rescue incident in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 7 firefighters and 2 officers for 80% percent of all low risk technical rescue responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides fire apparatus carrying staff and equipment for a rural response involving moderate risk technical rescue incidents. Agency responders will ensure a unified command is established and any additional technical rescue resources and/or agencies are considered and notified where appropriate to effectively carry out the rescue. Command will establish and direct the required level of personal protection equipment to be worn for the technical rescue and ensuring staging of technical rescue equipment and medical triage for responders and affected persons. Command will assess, communicate and address any modifying conditions including traffic safety that could negatively impact the safe resolution of the technical rescue incident in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The following chart illustrates the Agency's technical rescue response critical tasks for moderate risks:

Technical Rescue	Moderate Risk Motor Vehicle Accidents with Extrication - Hwy 401	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Communications, Incident Stabilization, Patient Care, Extinguishment Precaution, Extrication	4
Pumper 2	Extrication support, scene support, patient care	4
Blocker 1	Traffic safety	1
Total		9

Technical Rescue High/Maximum Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all high/maximum technical rescue responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to high/maximum risk technical rescue incidents in the urban areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all high/maximum risk technical rescue responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to high/maximum risk technical rescue incidents in the rural areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

Effective Response Force (ERF) Benchmark High/Maximum Risk High Angle Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 11 firefighters and 4 officers for 90% percent of all high/maximum risk - high angle technical rescue responses. The Agency's total response time

benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides fire apparatus carrying staff and equipment for an urban response involving high/maximum risk - high angle technical rescue incidents. Agency responders will ensure a unified command is established and any additional technical rescue resources and/or agencies are considered and notified where appropriate to effectively carry out the rescue. Command will establish the appropriate rescue zones and direct the required level of personal protection equipment to be worn for the high angle technical rescue incident. Command will ensure the required staging of high angle technical rescue equipment and medical care is provided for responders and affected persons. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the high angle technical rescue incident in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 12 firefighters and 4 officers for 80% percent of all high/maximum risk - high angle technical rescue responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides fire apparatus carrying staff and equipment for a rural response involving high/maximum risk - high angle technical rescue incidents. Agency responders will ensure a unified command is established and any additional technical rescue resources and/or agencies are considered and notified where appropriate to effectively carry out the rescue. Command will establish the appropriate rescue zones and direct the required level of personal protection equipment to be worn for the high angle technical rescue incident. Command will ensure the required staging of high angle technical rescue equipment and medical care is provided for responders and affected persons. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the high angle technical rescue incident in accordance with the Agency's Standard Operating Procedures and legislative regulations.

Effective Response Force (ERF) Benchmark High/Maximum Risk -Confined Space Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 18 firefighters and 6 officers for 90% percent of all high/maximum risk – confined space technical rescue responses. The Agency’s total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides fire apparatus carrying staff and equipment for an urban response involving high/maximum risk –confined space technical rescue incidents. Agency responders will ensure a unified command is established and any additional technical rescue resources and/or agencies are considered and notified where appropriate to effectively carry out the rescue. Command will establish the appropriate rescue zones and direct the required level of personal protection equipment to be worn for the confined space technical rescue incident. Command will ensure the required staging of confined space technical rescue equipment and medical care is provided for responders and affected persons. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the confined space technical rescue incident in accordance with the Agency’s Standard Operating Procedures and legislative regulations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 18 firefighters and 6 officers for 80% percent of all high/maximum risk –confined space technical rescue responses. The Agency’s total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides fire apparatus carrying staff and equipment for a rural response involving high/maximum risk – confined space technical rescue incidents. Agency responders will ensure a unified command is established and any additional technical rescue resources and/or agencies are considered and notified where appropriate to effectively carry out the rescue. Command will

establish the appropriate rescue zones and direct the required level of personal protection equipment to be worn for the confined space technical rescue incident. Command will ensure the required staging of confined space technical rescue equipment and medical care is provided for responders and affected persons. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the confined space technical rescue incident in accordance with the Agency's Standard Operating Procedures and legislative regulations.

Effective Response Force (ERF) Benchmark High/Maximum Risk Confined Space Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 18 firefighters and 6 officers for 90% percent of all high/maximum risk – confined space technical rescue responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides fire apparatus carrying staff and equipment for an urban response involving high/maximum risk–confined space technical rescue incidents. Agency responders will ensure a unified command is established and any additional technical rescue resources and/or agencies are considered and notified where appropriate to effectively carry out the rescue. Command will establish the appropriate rescue zones and direct the required level of personal protection equipment to be worn for the confined space technical rescue incident. Command will ensure the required staging of confined space technical rescue equipment and medical care is provided for responders and affected persons. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the confined space technical rescue incident in accordance with the Agency's Standard Operating Procedures and legislative regulations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 18 firefighters

and 6 officers for 80% percent of all high/maximum risk –confined space technical rescue responses. The Agency’s total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides fire apparatus carrying staff and equipment for a rural response involving high/maximum risk – confined space technical rescue incidents. Agency responders will ensure a unified command is established and any additional technical rescue resources and/or agencies are considered and notified where appropriate to effectively carry out the rescue. Command will establish the appropriate rescue zones and direct the required level of personal protection equipment to be worn for the confined space technical rescue incident. Command will ensure the required staging of confined space technical rescue equipment and medical care is provided for responders and affected persons. Command will assess, communicate and address any modifying conditions that could negatively impact the safe resolution of the confined space technical rescue incident in accordance with the Agency’s Standard Operating Procedures and legislative regulations.

The following chart illustrates the Agency’s high angle technical rescue response critical tasks for high/maximum risks:

Technical Rescue	High/ Maximum Risk High Angle Rescue	
	Apparatus	Critical Tasks
Pumper 1	Size Up, Rescue Team Leader, Communications, Scene Management/integrity assessment, Rescue Team Primary	4
Pumper 2	Equipment Staging, Rescue Team Back up	4
Pumper 3	Equipment Movement, Cutting table, Air Cart for Rescuers,	4
Platform 1	Air Monitoring (environmental), Equipment placement	3
Rescue 1	Equipment Staging	2
Roll off 1	Equipment Delivery	1
Pumper 4	Hazmat Response Initiation	4
Chief Officer	Incident Command	1
Total		24

The following chart illustrates the Agency's trench/structural collapse technical rescue response critical tasks for high/maximum risks:

Technical Rescue	High/ Maximum Risk Trench / Structural Collapse	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size Up, Rescue Team Leader, Communications, Scene Management/integrity assessment, Rescue Team Primary	4
Pumper 2	Equipment Staging, Rescue Team Back up	4
Pumper 3	Equipment Movement, Cutting table, Air Cart for Rescuers,	4
Platform 1	Air Monitoring (environmental), Equipment placement	3
Rescue 1	Equipment Staging	2
Roll off 1	Equipment Delivery	1
Pumper 4	Rescue support, Equipment reinforcement.	4
Chief Officer	Incident Command	1
Total		24

The following chart illustrates the Agency's confined space technical rescue response critical tasks for high/maximum risks:

Technical Rescue	High/ Maximum Risk Confined Space	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size Up, Rescue Team Leader, Communications, Scene Management/integrity assessment, Rescue Team Primary	4
Pumper 2	Equipment Staging, Rescue Team Back up	4
Pumper 3	Equipment Movement, Cutting table, Air Cart for Rescuers,	4
Platform 1	Air Monitoring (environmental), Equipment placement	3
Rescue 1	Equipment Staging	2
Roll off 1	Equipment Delivery	1
Pumper 4	Hazmat Response Initiation	4
Chief Officer	Incident Command	1
Total		24

Technical Rescue Baseline Performance:

An initial (first on scene) fire apparatus response will be dispatched to low, moderate, high and maximum technical rescue risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The first on scene fire apparatus is often a fire pumper apparatus from the closest fire station. The fire pumper apparatus provides a minimum of four staff to initiate a limited technical rescue response in advance of the arrival of the remaining apparatus in accordance with standard operating procedures for a technical rescue response. The 90th percentile baseline total response time from 2018-2020 is 7 minutes, 22 seconds in the urban area and 13 minutes, 29 seconds in the rural area of the AHJ.

Additional responding fire apparatus (effective response force, ERF) will be dispatched to effectively mitigate the low, moderate, high and maximum technical rescue risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The arrival of all responding resources will effectively ensure the completion of all critical tasking related to all technical rescue response types. The 2018-2020 90th percentile baseline total response time for the ERF to arrive is 8 minutes, 30 seconds in the urban area and 16 minutes, 54 seconds in the rural area of the AHJ.

The following chart illustrates the Agency's 2018, 2019, and 2020 technical rescue baseline performance times for all risk levels measured at the 90th percentile:

All Risk Levels Technical Rescue - 90th Percentile Times - Baseline Performance			2018-2020	2020	2019	2018
Alarm Handling	Pick-up to Dispatch	Urban	01:31	01:27	01:26	01:42
		Rural	01:38	01:23	01:55	01:54
Turnout Time	Turnout Time 1st Unit	Urban	01:51	01:53	01:51	01:51
		Rural	07:10	07:42	07:55	06:12
Travel Time	Travel Time 1st Unit Distribution	Urban	04:34	04:09	04:47	04:44
		Rural	07:19	07:19	06:49	07:33
	Travel Time ERF Concentration	Urban	05:31	05:09	05:42	05:33
		Rural	10:34	09:16	10:38	10:49
Total Response Time	Total Response Time 1st Unit on Scene Distribution	Urban	07:22	07:16	07:13	07:34
		Number of incidents	1010	300	379	331
		Rural	13:29	13:15	13:46	13:09
		Number of incidents	180	57	66	57
	Total Response Time ERF Concentration	Urban	08:30	08:04	08:46	08:32
		Number of incidents	1005	299	376	330
		Rural	16:54	15:55	16:36	18:07
	Number of incidents	179	56	66	57	

Marine (Water/Ice) Rescue Low Risk

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all low risk water/ice rescue responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a water/ice rescue response in the urban (volunteer) area.

Agency's Fire Apparatus carries staff and equipment capable of safely performing low risk water/ice rescue operations. The Agency establishes command, conducts a size up of the scene, establishes communications, Incident stabilization as required, establishes the appropriate perimeters and scene safety.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all low risk water/ice rescue responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

Agency's Fire Apparatus carries staff and equipment capable of safely performing low risk water/ice rescue operations. The Agency establishes command, conducts a size up of the scene, establishes communications, Incident stabilization as required, establishes the appropriate perimeters and scene safety.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 9 firefighters and 5 officers for 90% percent of all low risk water/ice rescue responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk water/ice rescue incidents in the urban areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 9 firefighters and 5 officers for 80% percent of all low risk water/ice rescue responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to low risk water/ice rescue incidents in the rural areas. The response will ensure command is established and scene safety is considered while the incident is being assessed. The water/ice rescue is completed in accordance with the Agency's Standard Operating Procedures. The following chart illustrates the Agency's water/ice rescue response critical tasks for low risks:

Water/Ice Rescue	Low Risk	
	Shore Based – Victim self-rescue with floatation and verbal assistance	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Communications, Incident stabilization, establish perimeter safety, Equipment Staging, Shore based rescue – Rescue Operations Team 1	4
Pumper 2	Support equipment Staging, Patient care, Shore based support – Rescue Operations Team 2	4
Rescue 1	Equipment deployment	1
Platform 1	Rescue support, Equipment support, Support Rescue teams	4
Chief Officer	Incident Command	1
Safety Officer	Incident Safety Officer	1
	Total	14

Marine (Water/Ice) Rescue Moderate/High Risk

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all moderate/high risk water/ice rescue responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a water/ice rescue response in the rural area. Agency's Fire Apparatus carries staff and equipment capable of safely performing moderate/high risk water/ice rescue operations. The Agency establishes command, conducts a size up of the scene, establishes communications, Incident stabilization as required, establishes the appropriate perimeters and scene safety.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 9 firefighters and 5 officer for 90% percent of all moderate/high risk water/ice rescue responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to moderate/high risk water/ice rescue incidents in the urban areas. The response will ensure command is established to ensure scene safety while the incident is assessed, and the rescue is completed in accordance with the Agency's Standard Operating Procedures.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 9 firefighters and 5 officer for 80% percent of all moderate/high risk water/ice rescue responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency provides a fire pumper apparatus carrying staff and response equipment for responding to moderate/high risk water/ice rescue incidents in the rural areas. The response will ensure command is established and scene safety is considered while the incident is being assessed. The water/ice rescue is completed in accordance with the Agency's Standard Operating Procedures.

The following chart illustrates the Agency's water/ice rescue response critical tasks for moderate/high risks:

Water/Ice Rescue	Moderate/High Risk Human(s) through ice < 1000 ft requiring rescuer water entry	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Communications, Incident stabilization, establish perimeters, Equipment Staging, Shore based rescue – Rescue Operations Team 1	4
Pumper 2	Support equipment Staging, Patient care, Shore based support – Rescue Operations Team 2	4
Rescue 1	Equipment deployment	1
Platform 1	Rescue support, Equipment support, Support Rescue teams	3
Chief Officer	Incident Command	1
Safety Officer	Incident Safety Officer	1
Total		14

Water/Ice Rescue Maximum Risk:

The following chart illustrates the Agency's water/ice rescue response critical tasks for maximum risks:

Water/Ice Rescue	Maximum Risk Human(s) through ice > 1000 ft requiring rescuer water entry	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Communications, Incident stabilization, Establish perimeters, Equipment Staging, Shore based rescue – Rescue Operations Team 1	4
Pumper 2	Support equipment Staging, Patient care, Shore based support – Rescue Operations Team 2	4
Rescue 1	Equipment deployment	1
Platform 1	Rescue support, Equipment support, Support Rescue teams	3
Chief Officer	Incident Command	1
Safety Officer	Incident Safety Officer	1
Total		14

Water Rescue	Maximum Risk Marine Unit – Capsized pleasure craft, Capsized Ferry, Fire on a vessel	
Apparatus	Critical Tasks	Personnel
Marine Unit	Size Up, Rescue Team Leader, Communications, Scene Management, Rescue	4
Pumper 1	Size Up, Rescue Team Leader, Communications, Scene Management, Shore Based Rescue, Rescue Team Primary	4
Pumper 2	Equipment Staging, Shore Based Rescue Team Back up	4
Platform 1	Equipment Set up, Scene lighting, Scene Safety, Rescuer Support	3
Rescue 1	Equipment Staging	2
Roll off 1	Equipment Delivery	1
Pumper 3	Rescue support, Equipment reinforcement.	4
Chief Officer	Incident Command	1
Total		24

Water/Ice Rescue Baseline Performance:

An initial (first on scene) fire apparatus response will be dispatched to low, moderate, high and maximum water/ice rescue risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The first on scene fire apparatus is often a fire pumper apparatus from the closest fire station. The fire pumper apparatus provides a minimum of four staff to initiate a limited water rescue response in advance of the arrival of the remaining apparatus in accordance with standard operating procedures for a water rescue response. The 90th percentile baseline total response time from 2018-2020 is 10 minutes, 55 seconds across all areas of the AHJ.

Additional responding fire apparatus (effective response force, ERF) will be dispatched to effectively mitigate the low, moderate, high and maximum water rescue risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The arrival of all responding resources will effectively ensure the completion of all critical tasking related to a water rescue response. The 2018-2020 90th percentile baseline total response time for the ERF to arrive is 17 minutes, 32 seconds across all areas of the AHJ.

The following chart illustrates the Agency's 2018, 2019, and 2020 marine (water/ice rescue) baseline performance times for all risk levels measured at the 90th percentile:

All Risk Levels Marine (water/ice rescue) 90th Percentile Times - Baseline Performance			2018-2020	2020	2019	2018
Alarm Handling	Pick-up to Dispatch	Urban	04:29	02:05	05:26	02:18
		Rural	00:00	00:00	00:00	00:00
Turnout Time	Turnout Time 1st Unit	Urban	02:12	02:05	03:18	02:10
		Rural	00:00	00:00	00:00	00:00
Travel Time	Travel Time 1st Unit Distribution	Urban	05:34	04:57	05:22	12:47
		Rural	00:00	00:00	00:00	00:00
	Travel Time ERF Concentration	Urban	11:57	11:25	10:17	22:08
		Rural	00:00	00:00	00:00	00:00
Total Response Time	Total Response Time 1st Unit on Scene Distribution	Urban	10:55	08:33	11:57	16:10
		Number of incidents	22	9	7	6
		Rural	00:00	00:00	00:00	00:00
		Number of incidents	0	0	0	0
	Total Response Time ERF Concentration	Urban	17:32	14:27	17:34	25:17
		Number of incidents	21	9	6	6
		Rural	00:00	00:00	00:00	00:00
	Number of incidents	0	0	0	0	

Wildland

Wildland Low Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all low risk wildland responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carry hose and wildland fire equipment to safely perform low risk wildland fire suppression operations where no life exposures are involved. The Wildland Units include two large one ton truck with a booster tank, each with a side by side utility terrain vehicle. The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a low risk wildland fire in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all low risk wildland responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carry hose and wildland fire equipment to safely perform low risk rural wildland fire suppression operations where no life exposures are involved. The Wildland Units include two large one ton truck with a booster tank, each with a side by side utility terrain vehicle.

The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a low risk wildland fire in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 6 firefighters and 2 officers for 90% percent of all low risk wildland responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a low risk urban wildland fire in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 6 firefighters and 2 officers for 80% percent of all low risk wildland responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a low risk rural wildland fire in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

The following chart illustrates the Agency’s wildland response critical tasks for low risks:

Wildland	Low Risk Urban / Rural interface, grass and under brush	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Fire Attack, Communications, Incident Command	4
Pumper 2	Fire attack support	4
Total		8

Wildland Moderate Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all moderate risk wildland responses. The Agency’s total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency’s Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carry hose and wildland fire equipment to safely perform low risk urban wildland fire suppression operations. The Wildland Units include two large one ton truck with a booster tank, each with a side by side utility terrain vehicle.

The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a low risk wildland fire in accordance with the Agency’s Standard Operating Procedures for urban wildland fire operations.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed

with 3 firefighters and 1 officer for 80% percent for all moderate risk wildland responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carry hose and wildland fire equipment to safely perform urban wildland fire suppression operations. The Wildland Units include two large one ton truck with a booster tank, each with a side by side utility terrain vehicle.

The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a low risk wildland fire in accordance with the Agency's Standard Operating Procedures for urban wildland fire operations.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban/rural area staffed with 21 firefighters and 5 officers for 90% percent of all moderate risk urban wildland responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency assesses the fireground area, establishes overall fireground command, secures a continuous tanker shuttle water supply to ensure the safe extinguishment of a moderate risk rural wildland fire. Tanker operations include the establishment of a water fill site at a hydrant or static source and a tanker dump site for offloading water to portable tanks. Staging and accountability operations are carried out in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 21 firefighters and 5 officers for 80% percent of all moderate risk wildland responses. The

Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency assesses the fireground area, establishes fireground command, secures a continuous tanker shuttle water supply to ensure the safe extinguishment of a moderate risk rural wildland fire. Tanker operations include the establishment of a water fill site at a hydrant or static source and a tanker dump site with staging and accountability operations carried out in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

The following chart illustrates the Agency's wildland response critical tasks for moderate risks:

Wildland	Moderate Risk Urban / Rural interface, grass and under brush	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Fire Attack, Communications, initial IC	4
Pumper 2	Fire attack, water shuttle dump site	4
Pumper 3	Fire attack, Staging Officer	4
Tanker 1	Water Shuttle	2
Tanker 2	Water shuttle	2
Tanker 3	Water shuttle	2
Converging personnel	Shuttle fill site (2) and shuttle dump site (2)	4
Wildland 1	UTV operator for remote water supply	2
Water Shuttle Officer	Water shuttle officer	1
Chief Officer		1
	Total	26

Wildland High Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all high risk wildland responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carry hose and wildland fire equipment to safely perform high risk urban wildland fire suppression operations. The Wildland Units include two large one ton truck with a booster tank, each with a side by side utility terrain vehicle.

The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a high risk wildland fire in accordance with the Agency's Standard Operating Procedures for urban wildland fire operations.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all high risk wildland responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carry hose and wildland fire equipment to safely perform high risk rural wildland fire suppression operations. The Wildland Units include two large one ton truck with a booster tank, each with a side by side utility terrain vehicle.

The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a high risk wildland fire in accordance with the Agency's Standard Operating Procedures for rural wildland fire operations.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 21 firefighters and 5 officers for 90% percent of all high risk wildland responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency assesses the fireground area, establishes overall fireground command, secures a continuous tanker shuttle water supply to ensure the safe extinguishment of a moderate risk urban wildland fire. Tanker operations include the establishment of a water fill site at a hydrant or static source and a tanker dump site for offloading water to portable tanks. Staging and accountability operations are carried out in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 21 firefighters and 5 officers for 80% percent of all high risk wildland responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency assesses the fireground area, establishes overall fireground command, secures a continuous tanker shuttle water supply to ensure the safe extinguishment of a moderate risk rural wildland fire. Tanker operations include the establishment of a water fill site at a hydrant or static source and a tanker dump site for offloading water to portable tanks. Staging and accountability operations are carried out in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

The following chart illustrates the Agency’s wildland response critical tasks for high risks:

Wildland	High Risk Large area wildfire, no exposures	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Fire Attack, Communications, initial IC	4
Pumper 2	Fire attack, water shuttle dump site	4
Pumper 3	Fire attack, Staging Officer	4
Tanker 1	Water Shuttle	2
Tanker 2	Water shuttle	2
Tanker 3	Water shuttle	2
Converging personnel	Shuttle fill site (2) and shuttle dump site (2)	4
Wildland 1	UTV operator for remote water supply	2
Water Shuttle Officer	Water shuttle officer	1
Chief Officer		1
	Total	26

Wildland Maximum Risk

First on Scene Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 90% percent of all maximum risk wildland responses. The Agency’s total response time benchmark for the arrival of the First on Scene apparatus in the urban (career) area is 6 minutes, 50 seconds and 10 minutes, 30 seconds for a response in the urban (volunteer) area.

The Agency’s Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carry hose and wildland fire equipment to safely perform maximum risk urban wildland fire suppression

operations. The Wildland Units include two large one ton truck with a booster tank, each with a side by side utility terrain vehicle.

The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a maximum risk wildland fire in accordance with the Agency's Standard Operating Procedures for urban wildland fire operations.

The Agency has established a total response time benchmark for the rural response areas of the AHJ for the First on Scene apparatus arrival staffed with 3 firefighters and 1 officer for 80% percent for all maximum risk wildland responses. The Agency's total response time benchmark for the arrival of the First on Scene apparatus in the rural area is 15 minutes, 30 seconds.

The Agency's Fire Pumper Apparatus carries 1,900 litres of water, are capable of flowing water at a rate up to 6,000 litres per minute and carry hose and wildland fire equipment to safely perform high risk rural wildland fire suppression operations. The Wildland Units include two large one ton truck with a booster tank, each with a side by side utility terrain vehicle.

The Agency assesses the fireground area, establishes fireground command, secures a continuous water supply to ensure the safe extinguishment of a high risk wildland fire in accordance with the Agency's Standard Operating Procedures for rural wildland fire operations.

Effective Response Force (ERF) Benchmark Performance Objectives:

The Agency has established total response time benchmarks for the urban response areas of the AHJ for the arrival of the ERF in the urban area staffed with 21 firefighters and 5 officers for 90% percent of all maximum risk wildland responses. The Agency's total response time benchmark for the arrival the ERF in the urban (career) area is 10 minutes 50 seconds, and 18 minutes 30 seconds in the urban (volunteer) area.

The Agency assesses the fireground area, establishes overall fireground command, secures a continuous tanker shuttle water supply to ensure the

safe extinguishment of a maximum risk urban wildland fire. Tanker operations include the establishment of a water fill site at a hydrant or static source and a tanker dump site for offloading water to portable tanks. Staging and accountability operations are carried out in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

The Agency has established total response time benchmarks for the rural response areas of the AHJ for the arrival of the ERF staffed with 21 firefighters and 5 officers for 80% percent of all maximum risk wildland responses. The Agency's total response time benchmark for the arrival the ERF in the rural area is 23 minutes 30 seconds.

The Agency assesses the fireground area, establishes overall fireground command, secures a continuous tanker shuttle water supply to ensure the safe extinguishment of a moderate risk rural wildland fire. Tanker operations include the establishment of a water fill site at a hydrant or static source and a tanker dump site for offloading water to portable tanks. Staging and accountability operations are carried out in accordance with the Agency's Standard Operating Procedures for wildland fire operations.

The following chart illustrates the Agency’s wildland response critical tasks for maximum risks:

Wildland	Maximum Risk Large area wildfire with exposures	
Apparatus	Critical Tasks	Personnel
Pumper 1	Size up, Fire Attack, Communications, initial IC	4
Pumper 2	Fire attack, water shuttle dump site	4
Pumper 3	Fire attack, Staging Officer	4
Tanker 1	Water Shuttle	2
Tanker 2	Water shuttle	2
Tanker 3	Water shuttle	2
Converging personnel	Shuttle fill site (2) and shuttle dump site (2)	4
Wildland 1	UTV operator for remote water supply	2
Water Shuttle Officer	Water shuttle officer	1
Chief Officer		1
	Total	26

Wildland Baseline Performance

An initial (first on scene) fire apparatus response will be dispatched to low, moderate, high and maximum wildland fire risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The first on scene fire apparatus will be from the closest fire station. The arriving fire pumper apparatus initiate a limited wildland fire response in advance of the arrival of the remaining apparatus in accordance with standard operating procedures for a wildland fire response. The 90th percentile baseline total response time from 2018-2020 is 8 minutes, 44 seconds in the urban area and 13 minutes, 29 seconds in the rural area of the AHJ.

Additional responding fire apparatus (effective response force, ERF) will be dispatched to effectively mitigate the low, moderate, high and maximum

wildland fire rescue risks within the AHJ and outside of the AHJ as approved through the establishing and regulating By-law 2021-91. The arrival of all responding resources will effectively ensure the completion of all critical tasking related to all wildland fire responses. The 2018-2020 90th percentile baseline total response time for the ERF to arrive is 11 minutes, 24 seconds in the urban area and 22 minutes, 54 seconds in the rural area of the AHJ.

The following chart illustrates the Agency’s 2018, 2019, and 2020 wildland baseline performance times for all risk levels measured at the 90th percentile:

All Risk Levels Wildland - 90th Percentile Times - Baseline Performance			2018-2020	2020	2019	2018
Alarm Handling	Pick-up to Dispatch	Urban	02:32	02:42	02:50	02:30
		Rural	02:28	02:34	02:10	02:44
Turnout Time	Turnout Time 1st Unit	Urban	01:56	01:57	01:52	01:57
		Rural	05:52	03:41	05:52	07:10
Travel Time	Travel Time 1st Unit Distribution	Urban	05:15	05:36	03:54	05:30
		Rural	07:21	06:40	08:24	06:39
	Travel Time ERF Concentration	Urban	07:10	07:28	05:53	06:56
		Rural	13:50	15:27	13:48	10:02
Total Response Time	Total Response Time 1st Unit on Scene Distribution	Urban	08:44	08:55	07:33	08:40
		Number of incidents	212	65	61	86
		Rural	13:22	11:14	14:36	13:10
		Number of incidents	39	10	19	10
	Total Response Time ERF Concentration	Urban	11:24	12:50	10:55	10:46
		Number of incidents	211	64	61	86
		Rural	22:54	24:45	22:44	20:18
		Number of incidents	39	10	19	10

Evaluation of Current Deployment and Performance

The Agency maintains the required number of Firefighters with the requisite training, skills and abilities to respond and carry out critical tasks to mitigate a range of community risks. The evaluation includes a review of responses that involve the identified community risks or a combination of risks within one incident. The deployment model recognizes the need to respond the minimum number of required resources initially, also known as first on scene. The remaining number of resources, also known as the effective response force, is the remaining minimum number of anticipated resources to effectively apply the required critical tasks to mitigate the incident.

Response times

The activation of the Agency's emergency response begins upon receipt of the request for service at the Agency's Communication Centre. The following evaluation of current deployment and performance does not include the time from the receipt of the request for service by the Public Safety Answering Point, (PSAP) and the time required to transfer the caller to the Agency's Communication Centre. The evaluation will include the analysis of the Agency's "total response time" continuum including the time commencing from the Agency's receipt of the call and processing of the call, the turnout time and the travel time.

Industry Research

The Agency refers to a range of industry research to deploy a consistent number of responders for each program type. The Agency refers to the relevant National Standards, National Fire Protection Association Standards (NFPA) to appropriately inform the Agency's deployment model. Further, the Agency has prescribed steps to follow with respect to occupational health and safety in the Province of Ontario. The Agency members including labour and management work together to improve operating procedures within the Agency's charter and commitment to occupational health and safety. Therefore, where the Agency

does not entirely meet NFPA standards, the Agency will have developed Agency specific response strategies that considered the NFPA and occupational health and safety research. The Agency does consult with the third party Provincial Fire Marshal's office as required, on a range of Agency programs and services to ensure the provision of services meet the needs and circumstances of the community. All Agency programs, services and deployment of resources are approved and adopted by the Governing body.

Unique Needs and Circumstance of the Community

The Community Risk Assessment has identified and methodically organized its service area in a manner to meet the unique and differing needs and circumstance of the community. In evaluating current and future needs, the Agency has divided the Authority Having Jurisdiction (AHJ) into smaller planning zones. The evaluation of the smaller zones has identified that a range of conditions have a direct correlation to community risks. Response trends and impacts become apparent when reviewing 2018, 2019 and 2020 historical response data (HRD) within the smaller planning zones.

The three year historical volume of emergency service requests is directly associated to the population density within the planning zone. When the aggregate planning zones are considered it is apparent that the highest call volumes are within the urban more densely populated centre of the Agency's coverage area. The next busiest area are the zones that are situated in the Agency west and east urban area and then finally the least busy are the zones with a lower population density and situated in the rural response areas. Of particular interest is the intensification and historical response data within all the urban areas of the AHJ served by both volunteer and full time Firefighters. The intensification and growth in the urban area is correlated to the AHJ's strategic initiatives for in- migration and to improve the availability of affordable and rental housing stock. Much of the intensification involves both single family and multi-unit residential occupancies. The Agency's HRD identifies that while the risk is categorized as "low" the prevalence of human and property loss fire across the AHJ is most likely to occur within a residential setting. As such, the Agency has taken steps to improve the delivery of fire and life safety education with a focus on single and multi-unit residential occupancies.

Population Densities on Travel Times

The Agency response area is vast making up 450 sq km. containing rural and urban response areas and in some fire station response areas the Agency has both. The Agency notes that there are more kilometres of roads to travel for fire stations located within the densely populated areas within the east and west side of the area of responsibility versus less kilometres of roadways within the fire stations within the centre of the AHJ. The Agency has evaluated the impact of population densities and kilometres of roadways within each fire station's area and notes the direct correlation to travel times, number of roads to service and populations to serve. This is noticed particularly more with the baseline total response time of first arriving units versus the arrival of the effective response force.

Automatic and Mutual Aid

The Agency is a member of the Kingston Frontenac Lennox and Addington Mutual Aid Plan. The Agency has a long standing automatic aid agreement with the United Counties of Leeds and Grenville for portions of Highway 401 (Kings Highway) due to the physical concrete median barrier that creates a physical obstruction for the Agency and the Fire Service to the east. The Agency has not as yet evaluated the Response Times of the Fire Service responding to portions of the AHJ through agreement.

The following charts illustrate a breakdown of the Agency’s benchmark response times against the 2018-2020 baseline response times and performance gaps.

Call Processing Time	Urban (Career) 90th Percentile Benchmark	Urban (Career) 90th Percentile Baseline 2018-2020	Urban (Volunteer) 90th Percentile Benchmark	Urban (Volunteer) 90th Percentile Baseline 2018-2020	Rural 80th Percentile Benchmark	Rural 80th Percentile Baseline 2018-2020
First on Scene Distribution	90 seconds	110 seconds (20 second gap: 20%)	90 seconds	120 seconds (30 second gap: 35%)	90 seconds	98 seconds (8 second gap: 10%)
Effective Response Force Concentration	90 seconds	107 seconds (17 second gap: 20%)	90 seconds	122 seconds (32 second gap: 35%)	90 seconds	109 seconds (19 second gap: 20%)

Turnout Time	Urban (Career) 90th Percentile Benchmark	Urban (Career) 90th Percentile Baseline 2018-2020
First on Scene Distribution	80 seconds	116 seconds (36 second gap: 45%)
Effective Response Force Concentration	80 seconds	128 seconds (48 second gap: 60%)

Travel Time	Urban (Career) 90th Percentile Benchmark	Urban (Career) 90th Percentile Baseline 2018-2020
First on Scene Distribution	240 seconds	302 seconds (62 second gap: 25%)
Effective Response Force Concentration	480 seconds	363 seconds

Response Time	Urban (Volunteer) 90th Percentile Benchmark	Urban (Volunteer) 90th Percentile Baseline 2018-2020
First on Scene Distribution	540 seconds	739 seconds (199 second gap: 40%)
Effective Response Force Concentration	1020 seconds	870 seconds

Response Time	Rural 80th Percentile Benchmark	Rural 80th Percentile Baseline 2018-2020
First on Scene Distribution	840 seconds	787 seconds
Effective Response Force Concentration	1320 seconds	1049 seconds

The following charts illustrates a summary of the Agency's total benchmark response times against the 2018-2020 total baseline response times:

Urban Response (Career) 90th Percentile	Total Response Time Benchmark	2018-2020 Baseline Response Time
First on Scene Distribution	410 seconds	473 seconds (63 second gap: 15%)
Effective Response Force Concentration	650 seconds	561 seconds

Urban Response (Volunteer) 90th Percentile	Total Response Time Benchmark	2018-2020 Baseline Response Time
First on Scene Distribution	630 seconds	747 seconds (117 second gap: 20%)
Effective Response Force Concentration	1110 seconds	804 seconds

Rural Response 80th Percentile	Total Response Time Benchmark	2018-2020 Baseline Response Time
First on Scene Distribution	930 seconds	791 seconds
Effective Response Force Concentration	1410 seconds	1,058 seconds

Identified Gaps in 2018-2020 Response Time Performance

Call Processing

- First on scene
 - urban (career) baseline is 20% above the benchmark
 - urban (volunteer) baseline is 35% above the benchmark
 - rural baseline is 10% above the benchmark
- Effective response force
 - urban (career) baseline is 20% above the benchmark
 - urban (volunteer) is 35% above the benchmark
 - rural baseline is 20% above the benchmark

Turnout Time

- First on scene
 - urban (career) baseline is 45% above the benchmark
- Effective response force
 - urban (career) baseline is 60% above the benchmark

Travel Time

- First on scene
 - urban (career) baseline is 25% above the benchmark

Volunteer Response Time

- First on scene
 - Urban (volunteer) baseline is 40% above the benchmark

Summary

The 2018-2020 total response time measurement for the Agency identified a 15% response time gap above the approved benchmark when evaluating the Agency's baseline total response time performance for urban (career) first on scene (Distribution).

The 2018-2020 total response time measurement for the Agency identified a 20% response time gap above the approved benchmark when evaluating the Agency's baseline total response time performance for urban (volunteer) first on scene (Distribution).

The 2018-2020 total response time measurement of the Agency's Effective Response Force (Concentration) reliability met the Agency's approved benchmark for both rural and urban for all response risks.

Plan for Maintaining and Improving Response Capabilities

Based on the 2018-2020 Response Time Performance review, the Agency will facilitate a systematic continuous improvement plan for maintaining and improving total response time distribution and concentration capabilities commencing in 2022.

Areas of focus will include improving the Agency's baseline performance by:

- Analyze and improve consistency with Communication Technicians alarm handling processes across all call types – Q1 2022
- Analyze and improve the consistency of Firefighter turnout processes across all platoons and all call types – Q1 2022
- Analyze and improve the total response time consistency for all call types/risks for urban first on scene responses – Q1-2022
- Optimizing emergency response capabilities by reviewing the station area coverage, response resources and new conditions and demands annually in accordance with the Agency's fire services By-law – Q3 -2022
- Establish specific targeted and achievable incremental percentage reduction goals to address baseline performance gaps- Q1- 2022
- Present and report the 2018-2020 alarm handling and turnout baseline performance measure times to the AHJ and Agency leaders- Q1-2022
- Review the timing of the capital budget forecast along with the distribution and concentration response capabilities of relocating Station #5 from Railway Street to Division Street Q3 - 2022

Supporting activities to maintain and improve Agency response capabilities:

- Implement strategic plan goals and objectives with regular progress updates for Agency staff – Q4 -2021
- Communicate the Agency's Community Risk Assessment findings to internal and external stakeholders -Q4- 2021
- Establish a quarterly training and awareness plan focusing on the goal of maintaining the Agency's baseline performance measures that meet the established performance benchmarks-Q1 -2022

Correlation of the CRA/SOC Document to the CFAI Accreditation Model

Category 1 – Governance and Administration

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
CC 1A.1	The agency is legally established.	Page 16
1A.3	The governing body of the agency periodically reviews and approves services and programs.	Page 16-17
1A.5	The governing body or designated authority approves the organizational structure that carries out the agency's mission.	Page 16-17
1A.7	A communication process is in place between the governing body and the administrative structure of the agency.	Page 16-17
CC 1B.2	The administrative structure and allocation of financial, equipment and personnel resources reflect the agency's mission, goals, objectives, size and complexity.	Page 18-19

Category 2 - Assessment and Planning

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
2A.1	Service area boundaries for the agency are identified, documented and legally adopted by the authority having jurisdiction.	Page 19
2A.2	Boundaries for other service responsibility areas, such as automatic aid, mutual aid and contract areas, are identified, documented and appropriately approved by the authority having jurisdiction.	Page 41-43
CC 2A.3	The agency has a documented and adopted methodology for organizing the response area(s) into geographical planning zones.	Page 72
CC 2A.4	The agency assesses the community by planning zone and considers the population density within planning zones and population areas, as applicable, for the purpose of developing total response time standards.	Page 21
2A.5	Data that include property, life, injury, environmental and other associated losses, as well as the human and physical assets preserved and/or saved, are recorded for a minimum of three (initial accreditation agencies) to five (currently accredited agencies) immediately previous years.	Page 98

- 2A.6** The agency utilizes its adopted planning zone methodology to identify response area characteristics such as population, transportation systems, area land use, topography, geography, geology, physiography, climate, hazards, risks, and service provision capability demands. [Page 21-39](#)
- 2A.7** Significant socioeconomic and demographic characteristics for the response area are identified, such as key employment types and centers, assessed values, blighted areas, and population earning characteristics. [Page 21-39](#)
- 2A.8** The agency identifies and documents all safety and remediation programs, such as fire prevention, public education, injury prevention, public health, and other similar programs, currently active within the response area. [Page 60-65](#)
- 2A.9** The agency defines and identifies infrastructure that is considered critical within each planning zone. [Page 97-109;](#) Appendix A
- CC 2B.1** The agency has a documented and adopted methodology for identifying, assessing, categorizing and classifying all risks (fire and non-fire) throughout the community or area of responsibility. [Page 97-98](#)

- 2B.2** The historical emergency and nonemergency service demands frequency for a minimum of three immediately previous years and the future probability of emergency and nonemergency service demands, by service type, have been identified and documented by planning zone. [Page 97-109;](#)
Appendix A
- 2B.3** Event outputs and outcomes are assessed for three (initial accrediting agencies) to five (currently accredited agencies) immediately previous years. [Page 119-201](#)
- CC 2B.4** The agency's risk identification, analysis, categorization, and classification methodology has been utilized to determine and document the different categories and classes of risks within each planning zone. [Page 97-109;](#)
Appendix A
- 2B.5** Fire protection and detection systems are incorporated into the risk analysis. [Page 97](#)
- 2B.6** The agency assesses critical infrastructure within the planning zones for capabilities and capacities to meet the demands posed by the risks. Appendix A
- 2B.7** The agency engages other disciplines or groups within its community to compare and contrast risk assessments in order to identify gaps or future threats and risks. [Page 40-42](#)

- CC 2C.1** Given the levels of risks, area of responsibility, demographics, and socioeconomic factors, the agency has determined, documented and adopted a methodology for the consistent provision of service levels in all service program areas through response coverage strategies. [Page 97-109;](#)
[Appendix A](#)
- CC 2C.2** The agency has a documented and adopted methodology for monitoring its quality of emergency response performance for each service type within each planning zone and the total response area. [Page 119-201](#)
- 2C.3** Fire protection systems and detection systems are identified and considered in the development of appropriate response strategies. [Page 97-98](#)
- CC 2C.4** A critical task analysis of each risk category and risk class has been conducted to determine the first due and effective response force capabilities and a process is in place to validate and document the results. [Page 119-201](#)
- CC 2C.5** The agency has identified the total response time components for delivery of services in each service program area and found those services consistent and reliable within the entire response area. [Page 119-201](#)

- 2C.6** The agency identifies outcomes for its programs and ties them to the community risk assessment during updates and adjustments of its programs, as needed. [Page 2](#)
- 2C.7** The agency has identified the total response time components for delivery of services in each service program area and assessed those services in each planning zone. [Page 207](#); Appendix A
- CC 2C.8** The agency has identified efforts to maintain and improve its performance in the delivery of its emergency services for the past three (initial accreditation agencies) to five (currently accredited agencies) immediately previous years. [Page 209](#)
- 2C.9** The agency's resiliency has been assessed through its deployment policies, procedures and practices. [Page 72-73](#)
- CC 2D.1** The agency has a documented and adopted methodology for assessing performance adequacy, consistency, reliability, resiliency and opportunities for improvement for the total response area. [Page 116-117](#)
- 2D.2** The agency continuously monitors, assesses and internally reports, at least quarterly, on the ability of the existing delivery system to meet expected outcomes and identifies and prioritizes remedial actions. [Page 117](#)

CC 2D.3	The performance monitoring methodology identifies, at least annually, future external influences, altering conditions, growth and development trends, and new or evolving risks, for purposes of analyzing the balance of service capabilities with new conditions or demands.	Page 16-17
2D.4	The performance monitoring methodology supports the assessment of the efficiency and effectiveness of each service program at least annually in relation to industry research.	Page 119-201
2D.5	Impacts of incident mitigation program efforts, such as community risk reduction, public education, and community service programs, are considered and assessed in the monitoring process.	Page 63
CC 2D.6	Performance gaps for the total response area, such as inadequacies, inconsistencies, and negative trends, are determined at least annually.	Page 203
CC 2D.7	The agency has systematically developed a continuous improvement plan that details actions to be taken within an identified timeframe to address existing gaps and variations.	Page 209
2D.8	The agency seeks approval of its standards of cover by the authority having jurisdiction (AHJ).	Page 16-17

- CC 2D.9** On at least an annual basis, the agency formally notifies the AHJ of any gaps in current capabilities, capacity and the level of service provided within its delivery system to mitigate the identified risks within its service area, as identified in its community risk assessment /standards of cover. [Page 209](#)
- 2D.10** The agency interacts with external stakeholders and the AHJ at least once every three years to determine the stakeholders' and AHJ's expectations for types and levels of services provided by the agency. [Page 116-117](#)

Category 3 – Goals and Objectives

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
CC 3A.1	The agency has a current and published strategic plan that has been submitted to the authority having jurisdiction.	Page 17
3A.2	The agency coordinates with the jurisdiction's planning component to ensure the strategic plan is consistent with the community master plan.	Page 17

- CC 3B.1** The agency publishes current, general organizational goals and S.M.A.R.T. objectives, which use measurable elements of time, quantity and quality. These goals and objectives directly correlate to the agency’s mission, vision and values and are stated in the strategic plan. [Page 8-9](#)
- 3B.2** The agency conducts an environmental scan when establishing its goals and objectives. [Page 118](#)
- CC 3B.3** The agency solicits feedback and direct participation from internal and external stakeholders in the development, implementation and evaluation of the agency’s goals and objectives. [Page 113-118](#)
- 3B.4** The agency uses internal input to implement and evaluate its goals and objectives and to measure progress in achieving the strategic plan. [Page 118](#)
- 3B.5** The governing body reviews the agency’s goals and objectives and considers all budgetary and operational proposals in order to ensure success. [Page 19-21](#)
- 3B.6** When developing organizational values, the agency seeks input from its members and is in alignment with its community. [Page 116-118](#)
- CC 3C.1** The agency identifies personnel to manage its goals and objectives and uses a defined organizational management process to track progress and results. [Page 117](#)

CC 3C.2	The agency’s personnel receive information explaining its goals and objectives.	Page 43
3C.3	The agency, when necessary, identifies and engages appropriate external resources to help accomplish its goals and objectives.	Page 40-41
CC 3D.1	The agency reviews its goals and objectives at least annually and modifies as needed to ensure they are relevant and contemporary.	Page 17
CC 3D.2	The agency reviews, at least annually, its overall system performance and identifies areas in need of improvement, which should be considered for inclusion in the organizational goals and objectives.	Page 209
3D.3	The agency provides progress updates, at least annually, on its goals and objectives to the AHJ, its members and the community it serves.	Page 17

Category 4 – Financial Resources

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
CC 4A.7	The agency’s budget, short and long-range financial planning, and capital project plans are consistent with the agency’s strategic plan and support achievement of identified goals and objectives.	Page 19-21

- CC 4C.1** Given current and forecasted revenues, the agency sustains the level of service adopted by the AHJ. [Page 19-21](#)
- 4C.3** The agency budgets future asset maintenance and repair costs with related funding plans. [Page 19-21](#)

Category 5 – Community Risk Reduction Program

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
CC 5A.2	The code enforcement program ensures compliance with applicable fire protection law(s), local jurisdiction, hazard abatement and agency objectives as defined in the community risk assessment/ standards of cover.	Page 62
5A.6	The agency sets specific, targeted, and achievable annual loss reduction benchmarks for fire incidents and fire casualties based upon the community risk assessment and baseline performance.	Page 209
CC 5A.7	The agency conducts a formal and documented program appraisal, at least annually, to determine the program’s impacts and outcomes, and to measure performance and progress in reducing risk based on the community risk assessment/standards of cover.	Page 118

- CC 5B.1** The public education program targets specific risks, behaviors and audiences identified through incident, demographic and program data analysis and the community risk assessment/standards of cover. [Page 63](#)
- 5B.3** Programs are in place to identify large loss potential or high-risk audiences (such as low socioeconomic status, age and cultural/ethnic differences, where appropriate), forge partnerships with those who serve those constituencies, and enable specified programs to mitigate fires and other emergency incidents (such as home safety visits, smoke alarm installations, free bicycle helmet programs, fall prevention programs, etc.). [Page 63](#)
- CC 5B.4** The agency conducts a formal and documented program appraisal, at least annually, to determine the program's impacts and outcomes, and to measure performance and progress in reducing risk. [Page 118](#)
- CC 5C.4** The agency conducts a formal and documented program appraisal, at least annually, to determine the program's impacts and outcomes, and to measure performance and progress in reducing risk. [Page 118](#)

CC5D.1	The agency maintains a local emergency operations/all-hazards plan that defines roles and responsibilities of all participating departments and/or external agencies. The agency participates in maintaining and revising the plan with the AHJ.	Page 54-55
5D.5	The agency conducts and documents a vulnerability assessment and has operational plans to protect the agency's specific critical infrastructure, including but not limited to materials, supplies, apparatus, facilities security, fuel and information systems.	Page 54-55
5D.6	The agency has a documented continuity of operations plan that is reviewed annually and updated at least every five years to ensure essential operations are maintained.	Page 54-55
CC 5D.9	The agency conducts a formal and documented program appraisal, at least annually, to determine the program's impacts and outcomes, and to measure performance and progress in reducing risk.	Page 118
CC 5E.1	Given the agency's community risk assessment/standards of cover and emergency performance statements, the agency meets its staffing, response time, station(s), pumping capacity, apparatus and equipment deployment objectives for each type and magnitude of fire suppression incident(s).	Page 119-131

- CC 5E.3** The agency conducts a formal and documented program appraisal, at least annually, to determine the impacts, outcomes, and effectiveness of the program, and to measure its performance toward meeting the agency's goals and objectives. [Page 118](#)
- CC 5F.1** Given the agency's community risk assessment/standards of cover and emergency performance statements, the agency meets its staffing, response time, station(s), apparatus and equipment deployment objectives for each type and magnitude of emergency medical incident(s). [Page 133-142](#)
- CC 5F.2** The agency has standing orders/ protocols in place to direct EMS response activities to meet the stated level of EMS response including determination criteria for specialty transport and receiving facility destination. [Page 68-69](#)
- CC 5F.5** The agency creates and maintains a patient care record, hard copy or electronic, for each patient encountered. This report records a provider impression, patient history, data regarding treatment rendered and the patient disposition. The agency must make reasonable efforts to protect reports from public access and maintain them as per local, state/provincial and federal records retention requirements. [Page 68-69](#)

- 5F.7** The agency has a quality improvement/ quality assurance (QI/QA) program in place to improve system performance and patient outcomes including provisions for the exchange of patient outcome data between the agency and receiving facilities. [Page 68-69](#)
- 5F.8** The agency has implemented or developed a plan to implement a cardiopulmonary resuscitation (CPR) and public access defibrillation program for the community. [Page 68-69](#)
- CC 5F.9** The agency conducts a formal and documented program appraisal, at least annually, to determine the impact, outcomes and effectiveness of the program and to measure its performance toward meeting the agency's goals and objectives. [Page 118](#)
- CC 5G.1** Given the agency's community risk assessment/standards of cover and emergency performance statements, the agency meets its staffing, response time, station(s), apparatus, and equipment deployment objectives for each type and level of risk of a technical rescue incident(s). [Page 170-182](#)
- CC 5G.2** The agency conducts a formal and documented program appraisal, at least annually, to determine the impacts, outcomes and effectiveness of the program, and to measure its performance toward meeting the agency's goals and objectives. [Page 118](#)

- CC 5H.1** Given the agency's community risk assessment/standards of cover and emergency performance statements, the agency meets its staffing, response time, station(s), apparatus and equipment deployment objectives for each type and magnitude of hazardous materials incident(s). [Page 157-169](#)
- 5H.2** The agency complies with all aspects of applicable hazardous material regulations such as annual refresher training, medical monitoring of response personnel, annual physical examinations as applicable per standards, and exposure record retention. [Page 70](#)
- CC 5H.3** The agency conducts a formal and documented program appraisal, at least annually, to determine the impacts, outcomes, and effectiveness of the program, and to measure its performance toward meeting the agency's goals and objectives. [Page 118](#)
- CC 5I.1** Given the agency's community risk assessment/standards of cover and emergency performance statements, the agency meets its staffing, response time, station(s), extinguishing agent requirements, apparatus and equipment deployment objectives for each type and magnitude of aviation incident. [Page 143-156](#)

- CC 5I.2** The agency conducts a formal and documented program appraisal, at least annually, to determine the impacts, outcomes and effectiveness of the program, and to measure its performance toward meeting the agency's goals and objectives. [Page 118](#)
- CC 5J.1** Given the agency's community risk assessment/standards of cover and emergency performance statements, the agency meets its staffing, response time, station(s), extinguishing agency requirements, apparatus and equipment deployment objectives for each type and magnitude of marine and shipboard incident. [Page 183-189](#)
- CC 5J.2** The agency conducts a formal and documented program appraisal, at least annually, to determine the impacts, outcomes and effectiveness of the program, and to measure its performance toward meeting the agency's goals and objectives. [Page 118](#)
- CC 5K.1** Given the agency's community risk assessment/standards of cover and emergency performance statements, the agency meets its staffing, response time, station(s), apparatus and equipment deployment objectives for each type and magnitude of wildland fire services incident. [Page 190-201](#)

CC 5K.2	The agency has developed a wildland risk assessment including: a fuel management plan, a fire adapted communities plan, and an inspection and code enforcement program.	Page 71
CC 5K.3	The agency conducts a formal and documented program appraisal, at least annually, to determine the impact, outcomes and effectiveness of the program, and to measure its performance toward meeting the agency's goals and objectives.	Page 118
5L	Your agency must insert appropriate performance indicators and/or core competencies in the area below when other programs are considered.	NA

Category 6 – Financial Resources

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
6A.1	The development, construction or purchase of physical resources is consistent with the agency's goals and strategic plan.	Page 117
CC 6A.2	The governing body, administration and staff are involved in the planning for physical facilities.	Page 19-20

- 6B.1** Each function or program has adequate facilities and storage space (e.g., operations, prevention, training, support services and administration). [Page 49-71](#)
- CC 6B.3** Facilities comply with federal, state/provincial and local codes and regulations at the time of construction; required upgrades for safety are identified and, where resources allow, addressed. For those items that warrant further attention, a plan for implementation is identified in the agency's long-term capital improvement plan (i.e. fire alarm systems, sprinkler system, seismic, vehicle exhaust system, asbestos abatement, etc.). [Page 17](#)
- CC 6C.1** Apparatus and vehicle types are appropriate for the functions served (e.g., operations, staff support services, specialized services and administration). [Page 80-85](#)
- 6C.2** A current replacement schedule exists for all apparatus and support vehicles based on current federal and state/provincial standards, vehicle condition, department needs and requirements. [Page 81](#)
- CC 6D.5** The inspection, testing, preventive maintenance, replacement schedule and emergency repair of all apparatus are well established and meet the needs of the agency. [Page 56-57](#)

6E.1	Tools and equipment are distributed appropriately, are in adequate quantities and meet the operational needs of the specific functional area or program (e.g., fire suppression, prevention, investigations, hazmat, etc.).	Page 86-87
6E.2	Tool and equipment replacement is scheduled, budgeted and implemented, and is adequate to meet the agency's needs.	Page 86-87
CC 6E.3	Equipment maintenance, testing and inspections are conducted by qualified personnel, following manufacturer's recommended schedules.	Page 56-57
6E.5	Supplies and materials allocation is based on established objectives and appropriate to meet the operational needs of the specific functional area or program (e.g., fire suppression, prevention, investigations, hazmat, etc.), and is compliant with local, state/provincial and national standards.	Page 87
6F.1	Safety equipment is identified and distributed to appropriate personnel.	Page 72

Category 7 – Human Resources

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
7B.1	A mechanism is in place to identify and announce potential entry-level, lateral and promotional positions.	Page 16

7B.10 The agency conducts workforce assessments and has a plan to address projected personnel resource needs, including retention and attrition of tenured and experienced employees. [Page 16](#)

Category 8 – Training and Competencies

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
CC8A.1	The organization has a process in place to identify training needs, including tasks, activities, knowledge, skills and abilities.	Page 58-59
8A.2	The agency’s training program is consistent with the mission statement, goals and objectives, and helps the agency meets those goals and objectives.	Page 58-59
8A.4	The agency identifies minimum levels of training and education required for all positions in the organization.	Page 58-59
8B.1	A process is in place to ensure that personnel are appropriately trained.	Page 58-59
8B.3	The agency evaluates individual and crew performance through validated and documented performance-based measurements.	Page 58-59
8B.4	The agency analyzes student evaluations to determine reliability of training conducted.	Page 58-59

CC8B.6	The agency conducts a formal and documented program appraisal, at least annually, to determine the program's effectiveness and compliance with meeting the needs of the organization.	Page 118
CC 8C.2	The agency has access to instructional personnel, within the organization or from identified external resources, with teaching qualifications and expertise to meet its needs.	Page 58-59
CC 8C.8	Training materials are evaluated, at least annually, to reflect current practices and meet the needs of the agency.	Page 58-59

Category 9 – Essential Resources

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
CC 9A.1	The agency establishes minimum fire flow requirements for new development in accordance with nationally and internationally recognized standards and includes this information in the fire risk evaluation and pre-incident planning process.	Page 90

- CC 9A.2** An adequate and reliable water supply is available for firefighting purposes for identified risks. The identified water supply sources are adequate in volume and pressure, based on nationally and internationally recognized standards, to control and extinguish fires. [Page 90-91](#)
- 9A.4** The agency maintains copies of current water supply sources and annually reviews fire hydrant maps for its service area to ensure they are accurate. [Page 91-96](#)
- 9A.5** Fire hydrant adequacy and placement are based on nationally and internationally recognized standards and reflect the hazards of the response area. [Page 89](#)
- 9A.6** Public fire hydrants are inspected, tested, maintained, visible and accessible in accordance with nationally and internationally recognized standards. The agency's fire protection-related processes are evaluated, at least annually, to ensure adequate and readily available public or private water. [Page 89](#)
- 9A.7** The agency identifies, plans and trains for the possibility of a water supply system failure, including fire hydrants with insufficient capacity and areas where fire hydrants are unavailable or inaccessible. [Page 91](#)

- 9A.8** The agency has operational procedures in place outlining the available water supply and reviews those procedures as part of their documented review policy. [Page 91](#)
- CC 9B.1** A system is in place to ensure communication with portable, mobile and fixed communications systems in the field. When an area is identified as not allowing for adequate emergency scene communication, such as inside buildings or below grade level, an operational plan is documented and tested. [Page 50](#)
- 9B.3** The agency's communications center(s) is/are adequately equipped and designed (e.g., security, telephones, radios, equipment status, alarm devices, computers, address files, dispatching circuits, playback devices, recording systems, printers, consoles, desks, chairs, lighting and map displays). [Page 50-51](#)
- 9B.5** Adequate numbers of fire or emergency telecommunicators, supervisors and management personnel are on duty to handle the anticipated call volume. [Page 50](#)

- 9B.7** The agency has established time-based performance objectives for alarm handling. These objectives are formally communicated to communications center managers through direct report, contracts, service level agreements and/or memorandums of agreement and are reviewed at least annually to ensure time-based performance objectives are met. [Page 50](#)
- 9B.9** The interoperability of the communications system is documented, tested and evaluated. The agency has processes in place to provide for interoperability with other public safety agencies in the field including portable, mobile and fixed communications systems, tools and equipment. [Page 50-51](#)
- 9B.10** The dispatch process utilizes a formal and recognized emergency medical dispatch (EMD) system that allows for pre-arrival instructions and adequate triaging of medical calls for service. [Page 68-89](#)
- 9B.11** The agency has a documented and tested system in place for the notification and recall of off-duty agency personnel and telecommunicators for unplanned, large-scale incidents. [Page 72](#)

9B.12	The agency has a documented plan, which is reviewed and tested annually, to ensure continuity in communicating during any partial or total disruption or failure of a communications system or facility.	Page 53
9B.13	A formal and documented appraisal is conducted, at least annually, to determine the effectiveness of the emergency communications systems and their impact on meeting the agency's goals and objectives.	Page 118
CC 9C.1	The administrative support services are appropriate for the agency's size, function, complexity, and mission, and are adequately managed.	Page 49
CC 9C.3	Organizational documents, forms, standard operating procedures or general guidelines, and manuals are reviewed at least every three years and updated as needed for all agency programs.	Page 49
CC 9D.1	Hardware, software and IT personnel are appropriate for the agency's size, function, complexity and mission.	Page 49
9D.2	Software systems are integrated, and policies are in place addressing data governance, data accuracy and data analysis.	Page 17
9D.3	A comprehensive technology plan is in place to update, evaluate and procure hardware and software.	Page 19

9D.4 A cybersecurity policy is in place to protect the integrity of the infrastructure, including networks, programs and devices, from unauthorized access that could disrupt essential services. [Page 17](#)

Category 10 – Governance and Administration

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
CC 10A.1	The agency develops and maintains external relationships that support its mission, operations and/or cost-effectiveness.	Page 16
10A.2	The agency’s strategic plan identifies relationships with external agencies/ systems and outlines a process to identify any impact or benefit to the agency’s mission, operations or cost-effectiveness.	Page 118
10.3	The agency researches, evaluates and considers all types of functional relationships that may aid in the achievement of its goals and objectives.	Page 16
CC 10B.1	External agency agreements are reviewed every three years and revised as necessary to meet objectives.	Page 49
10B.2	The agency has a process to manage, review and, if needed, revise agreements.	Page 49

10B.3 The agency evaluates external agency performance annually to ensure that external agencies are capable and effective in supporting the agency’s goals and objectives. [Page 49](#)

Category 11 – Health and Safety

PI/ CC	PI/CC TEXT	CRA-SOC LOCATION PAGE/ SECTION/AREA
11A.4	The agency has established and communicated procedures and guidelines for preventing the transmission of blood-borne pathogens and other infectious diseases and reducing exposure to harmful chemicals. Guidelines should include an improvement of practices process.	Page 58-59
CC 11A.5	The agency’s occupational health and safety training program instructs the workforce in general safe work practices, from point of initial employment through each job assignment and/or whenever new substances, processes, procedures or equipment are introduced. It provides instructions on operations and hazards specific to the agency.	Page 58-59

- 11A.6** The agency uses near miss reporting to elevate the level of situational awareness to teach and share lessons learned from events that could have resulted in a fatality, injury or property damage. [Page 58-59](#)
- 11A.8** The agency incorporates risk management practices to increase the level of decision-making and the ability to identify unsafe conditions and practices during emergency operations. [Page 59](#)
- 11A.9** The agency has adopted a comprehensive program to address direct- and cross-contamination of clothing, personal protective equipment, other equipment, apparatus and fixed facilities. [Page 58](#)
- 11A.11** The agency has established procedures to ensure effective and qualified deployment of an Incident Safety Officer to all risk events. [Page 72-73](#)
- 11A.12** The agency establishes and consistently follows procedures for maintaining accountability of all personnel operating at all risk events. [Page 72-73](#)
- CC 11B.6** A formal and documented appraisal is conducted, at least annually, to determine the effectiveness of the wellness/fitness programs and its impact on meeting the agency's goals and objectives. [Page 118](#)

Station	ATOM	Probability	Impact	Risk
1	1e/632	low	high	low
	1w/632	low	high	na
	1e/640	low	high	low
	114 R	low	high	low
	115 R	low	high	low
	117 R	low	high	low
	121 R	low	high	low
	122 R	low	max	low
	123 R	low	high	low
	124 R	low	high	low
	125 R	low	max	low
	126 R	low	high	low
	130 R	low	max	low
	131 R	low	high	low
	132 R	low	high	low
	133 R	low	high	low
	134 R	low	high	low
	135 R	low	max	low
	148 R	low	high	low
	149 R	low	max	low
152 R	low	high	low	
2	101 R	low	high	low
	102 R	low	max	low
	103 R	low	high	low
	104 R	low	high	low
	105 R	low	high	low
	106 R	low	high	low
	107 R	low	high	low
	108 R	low	high	low
	109 R	low	high	low
	110 R	low	high	low
	111 R	low	high	low
	112 R	low	high	low
	116 R	low	high	low

Station	ATOM	Probability	Impact	Risk
3	1e/623	low	high	low
	113 R	low	max	low
	118 R	low	high	low
	119 R	low	high	low
	120 R	low	high	low
	127 R	low	high	low
	128 R	low	high	low
	129 R	low	high	low
	136 U	mod	max	mod
	137 U	mod	high	mod
	138 R	low	high	low
	139 U	low	high	low
	140 U	low	high	low
	141 U	low	max	low
	142 U	mod	high	mod
	143 U	low	max	low
	144 U	low	max	low
	145 U	low	max	low
	146 U	low	max	low
	147 R	low	high	low
	151 U	low	high	low
153 U	low	high	low	
154 R	low	high	low	

Station	ATOM	Probability	Impact	Risk
4	221 U	mod	high	low
	224 U	mod	high	low
	225 U	mod	high	mod
	226 U	mod	high	mod
	227 U	low	high	low
	228 U	high	high	high
	232 U	high	high	mod
	233 U	mod	high	low
	235 U	max	high	high
	236 U	mod	max	mod
	237 U	mod	high	low
	239 U	mod	high	low
5	202 U	low	high	low
	203 U	mod	high	mod
	204 U	low	mod	low
	207 U	low	high	low
	208 U	mod	max	mod
	209 U	mod	max	mod
	212 U	mod	max	mod
	213 U	mod	max	mod
	216 U	mod	high	mod
	217 U	high	high	high
	222 U	mod	high	low
	223 U	mod	max	mod
	238 U	low	high	low
	240 U	low	max	low
242 U	mod	max	mod	

Station	ATOM	Probability	Impact	Risk
6	201 U	low	max	low
	205 U	low	max	low
	206 U	low	max	low
	210 U	low	max	low
	211 U	mod	high	mod
	214 U	mod	max	mod
	215 U	mod	max	mod
	218 U	mod	max	mod
	219 U	mod	max	mod
	220 U	max	high	high
	229 U	mod	max	mod
	230 U	mod	max	mod
	231 U	mod	high	low
	234 U	mod	high	mod
	241 U	low	max	low

Station	ATOM	Probability	Impact	Risk
7	301 R	low	max	low
	302 R	low	high	low
	303 R	low	high	low
	304 R	low	high	low
	305 U	low	max	low
	306 U	low	max	low
	307 U	mod	max	mod
	308 U	mod	max	mod
	309 U	mod	max	mod
	311 R	low	high	low
	312 U	low	max	low
	313 U	low	high	low
	314 U	mod	high	mod
	315 U	mod	max	mod
	316 U	mod	max	mod
	317 U	mod	max	mod
	318 R	low	high	low
	319 U	low	max	low
	320 U	low	high	low
	321 U	mod	max	mod
	323 U	low	max	low
	324 U	low	max	low
	325 U	mod	max	mod
	338 R	low	mod	low
339 U	low	max	low	
3e/603	low	max	low	
3e/611	low	high	low	
4w/611	low	high	na	
4w/613	low	high	na	

Station	ATOM	Probability	Impact	Risk
8	405 R	low	max	low
	412 R	low	high	low
	413 R	low	high	low
	414 R	low	high	low
	415 R	low	high	low
	420 R	low	high	low
	421 R	low	high	low
	422 R	low	high	low
	423 R	low	high	low
	424 R	low	high	low
	427 R	low	high	low
	428 R	low	high	low
	429 R	low	high	low
	430 R	low	high	low
	431 R	low	max	low
	432 R	low	mod	low
	433 R	low	high	low
	435 R	low	high	low
436 R	low	high	low	

Station	ATOM	Probability	Impact	Risk
9	401 R	low	max	low
	402 R	low	high	low
	403 R	low	high	low
	404 R	low	high	low
	406 R	low	high	low
	407 R	low	mod	low
	408 R	low	max	low
	409 R	low	high	low
	410 R	low	max	low
	411 R	low	high	low
	416 R	low	high	low
	417 R	low	max	low
	418 R	low	max	low
	419 R	low	high	low
	425 R	low	high	low
	426 R	low	high	low
10	322 U	mod	max	mod
	326 U	mod	max	mod
	327 R	low	high	low
	328 R	low	high	low
	329 R	part of 328	part of 328	
	330 U	low	max	low
	331 U	mod	high	mod
	332 U	low	high	low
	333 U	low	max	low
	334 U	mod	max	mod
	*335 U	low	high	low
	336 U	low	max	low
	340 U	low	high	low





City of Kingston

Geographic Planning Zones (ATOM) Risk Assessment

Kingston Fire & Rescue 2018-2020



Appendix A

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #101- Rural - Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Bridge
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- Atom Property Count: 3
- City of Kingston Property Count: 28,630
- Atom Average Property Value: \$174,333
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #101	0	1	0	0	1
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM #101 First on Scene Response Time Baseline: 80th Percentile	15:00
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #101	1.76
City of Kingston	450.40
ATOM Percentage of Total	0.4%

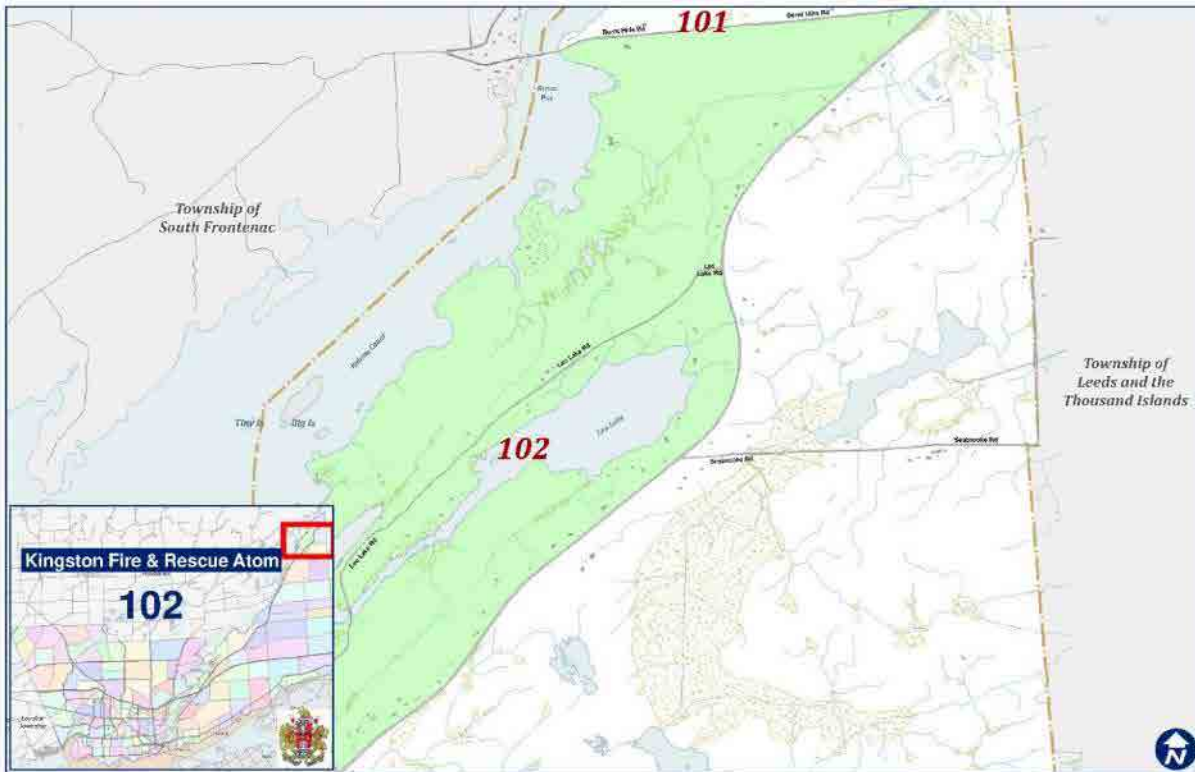
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #101	\$0.00	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #102 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Seasonal dwelling/Mobile home

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Marina(multiple water craft)
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 28
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$344,500
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #102	1	2	0	0	3
City of Kingston	2,187	3,210	5,675	1,394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM #102 First on Scene Response Time Baseline: 80th Percentile	19:49
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #102	4.36
City of Kingston	450.40
ATOM Percentage of Total	1.0%

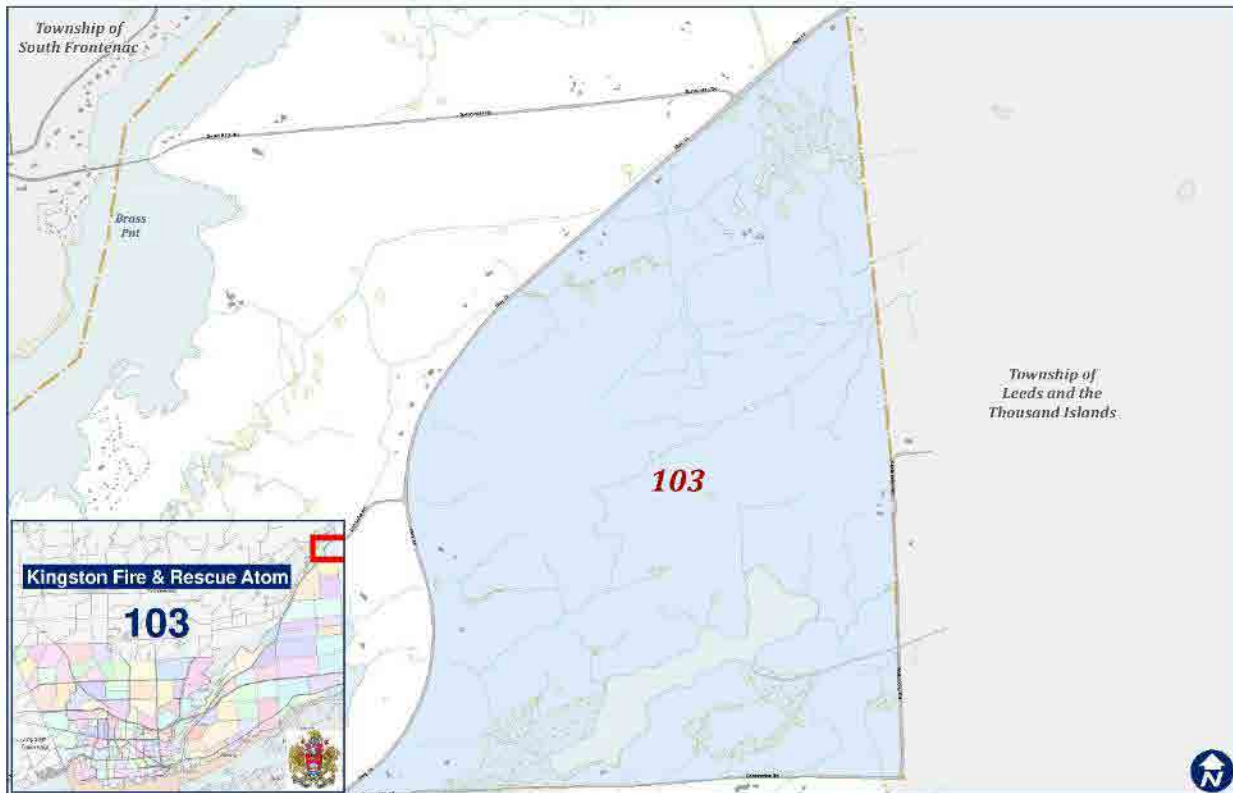
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #102	\$0.00	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #103- Rural - Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 7
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$261,429
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #103	4	1	1	1	7
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM #103 First on Scene Response Time Baseline: 80th Percentile	12:41
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #103	2.77
City of Kingston	450.40
ATOM Percentage of Total	0.6%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #103	\$25,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #104 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Seasonal dwelling/Mobile home

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest
- Parkland

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 33
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$310,424
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #104	1	3	0	0	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.01%	0.0%	0.0%	0.01%

2018 – 2020 Response Time

ATOM #104 First on Scene Response Time Baseline: 80th Percentile	12:53
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

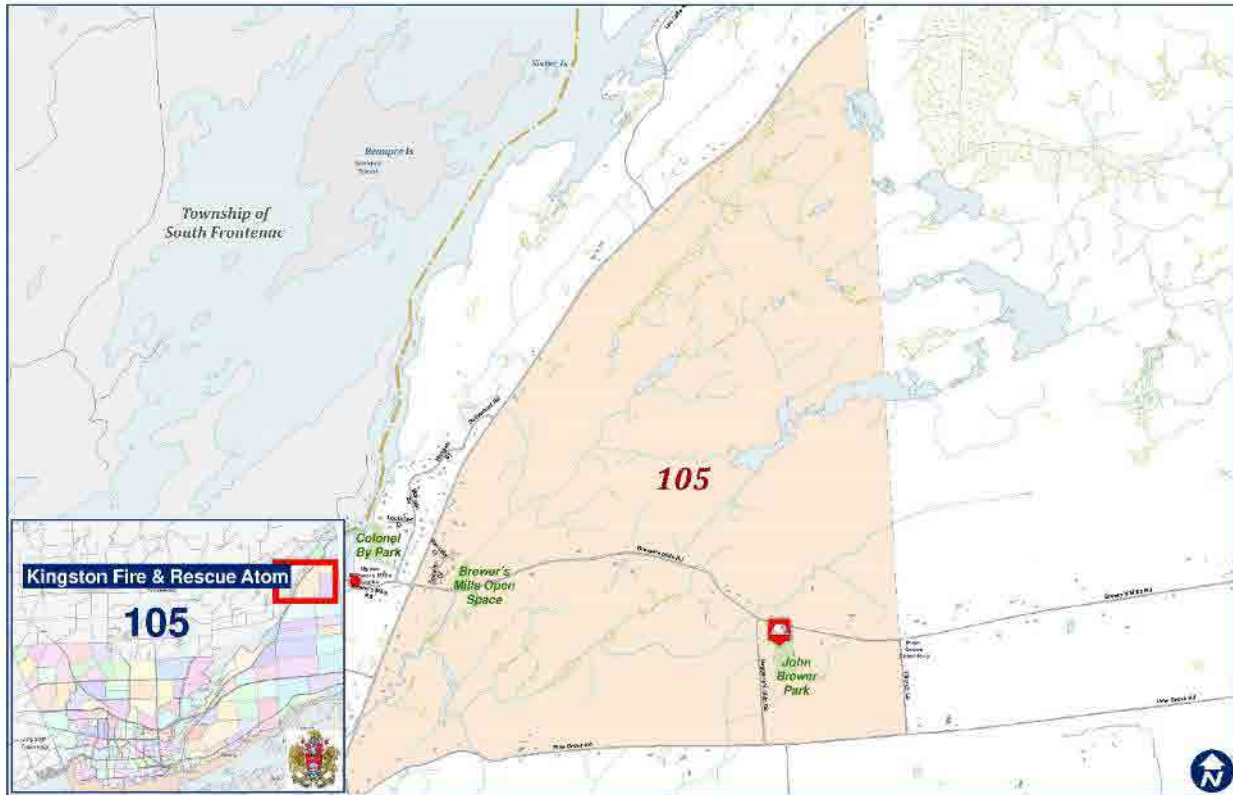
	Square Kilometre
ATOM #104	1.67
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #104	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #105 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 39
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$268,282
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #105	2	5	0	7	14
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.01%	0.0%	0.05%	0.01%

2018-2020 Response Time

ATOM #105 First on Scene Response Time Baseline: 80th Percentile	8:38
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

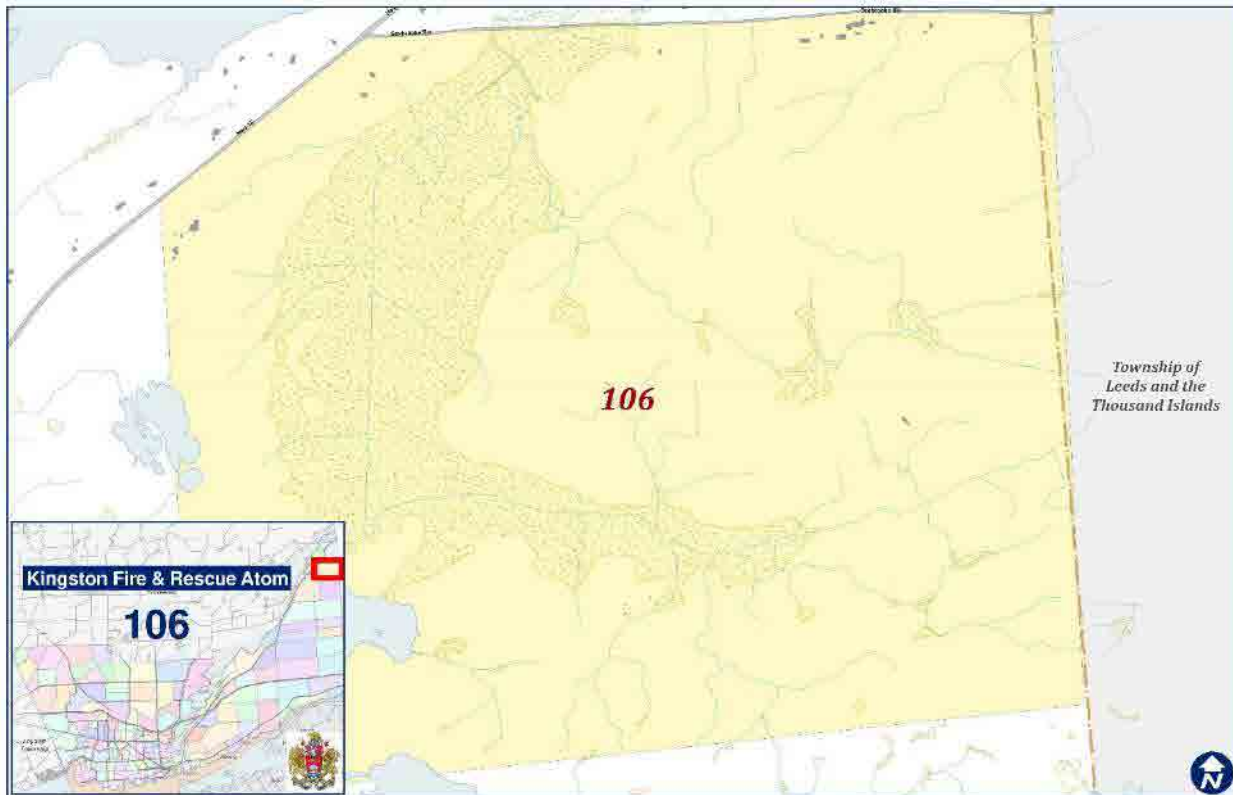
	Square Kilometre
ATOM #105	7.58
City of Kingston	450.40
ATOM Percentage of Total	1.7%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #105	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #106 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest
- Waterway

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 1
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$227,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	N	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #106	0	1	0	1	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.01%	0.0%	0.01%	0.01%

2018-2020 Response Time

ATOM #106 First on Scene Response Time Baseline: 80th Percentile	12:22
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #106	4.16
City of Kingston	450.40
ATOM Percentage of Total	0.9%

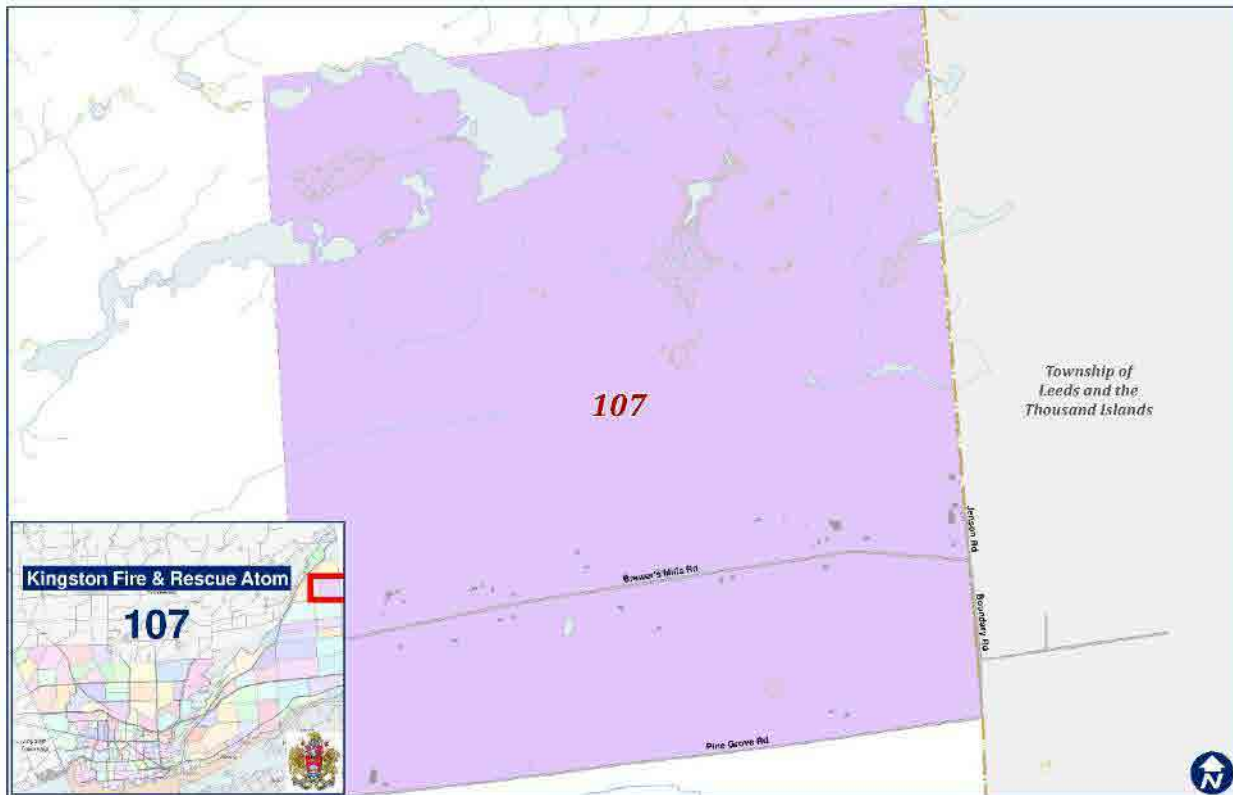
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #106	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #107 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Mfg/process Agr/Food/Bev/Tobac products
- Storage
- Agr/Food/Bev/Tobac products

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest
- Waterway

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 12
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$271,917
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #107	1	2	0	3	6
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.01%	0.0%	0.01%	0.01%

2018-2020 Response Time

ATOM #107 First on Scene Response Time Baseline: 80th Percentile	9:30
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #107	5.80
City of Kingston	450.40
ATOM Percentage of Total	1.3%

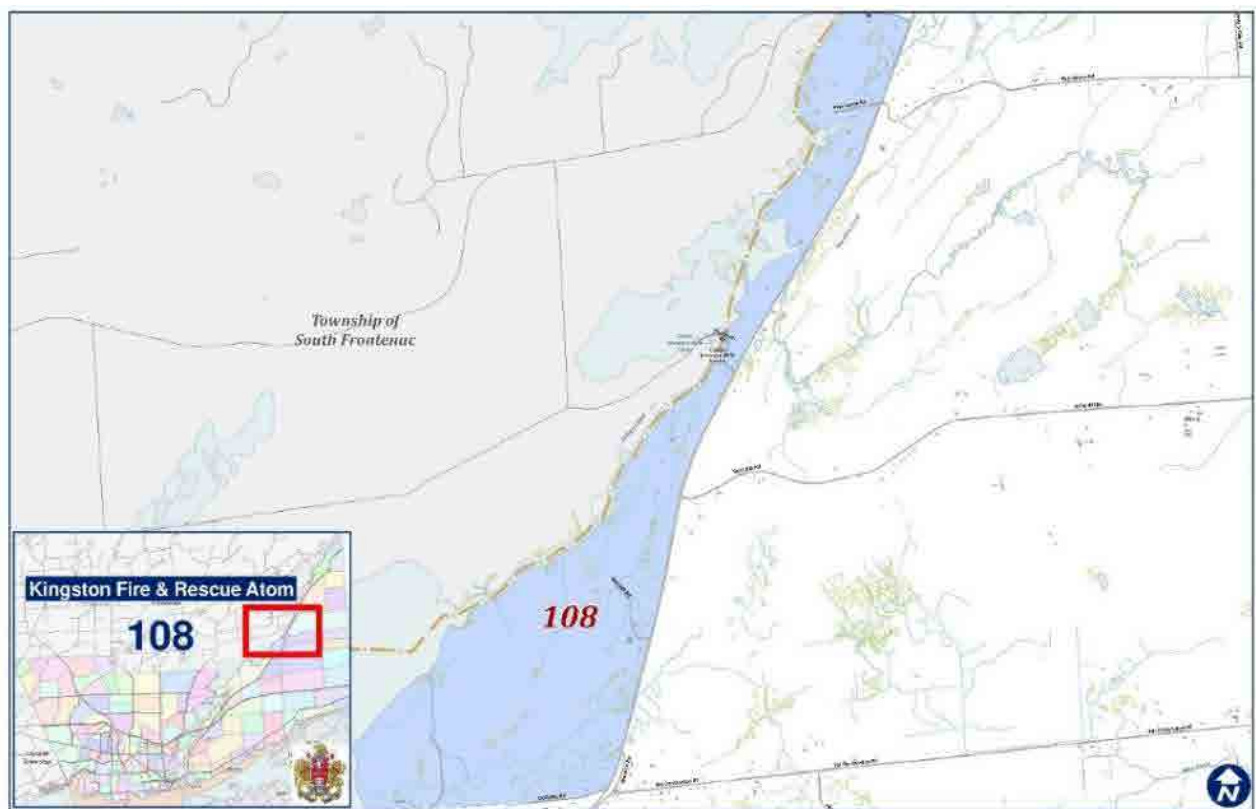
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #107	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #108 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Utilities – Sewage (Federal)
- Storage vehicles, parts

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Conservation area
- Trails
- Marina(multiple water craft)
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Bridge
- Gas Pipeline
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 22
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$246,545
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #108	0	0	2	1	3
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.01%	0.01%	0.01%	0.01%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #108 First on Scene Response Time Baseline: 80th Percentile	14:34
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

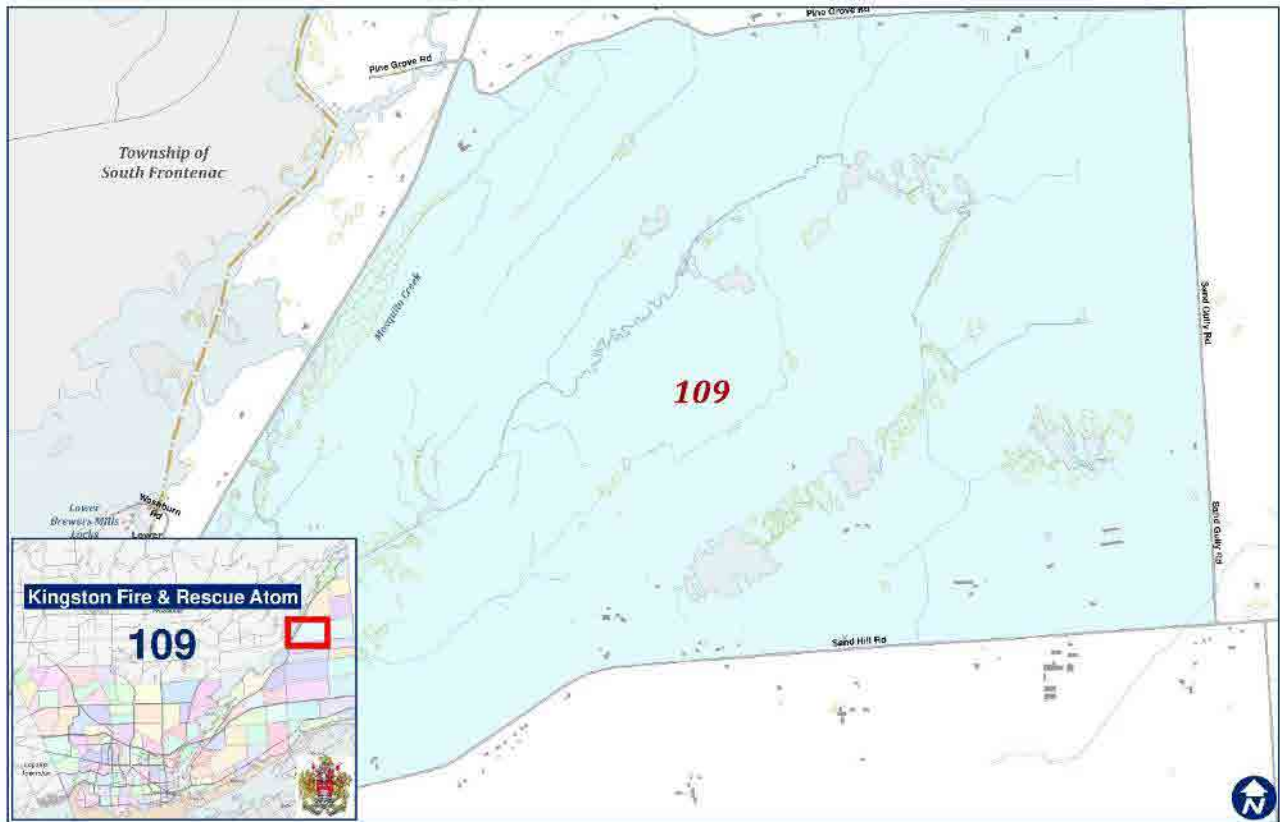
	Square Kilometre
ATOM #108	3.65
City of Kingston	450.40
ATOM Percentage of Total	0.8%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #108	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #109 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly (Church)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #109	1	0	1	4	6
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.0%	0.01%	0.01%	0.01%

2018-2020 RESPONSE TIME

ATOM #109 First on Scene Response Time Baseline: 80th Percentile	12:58
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

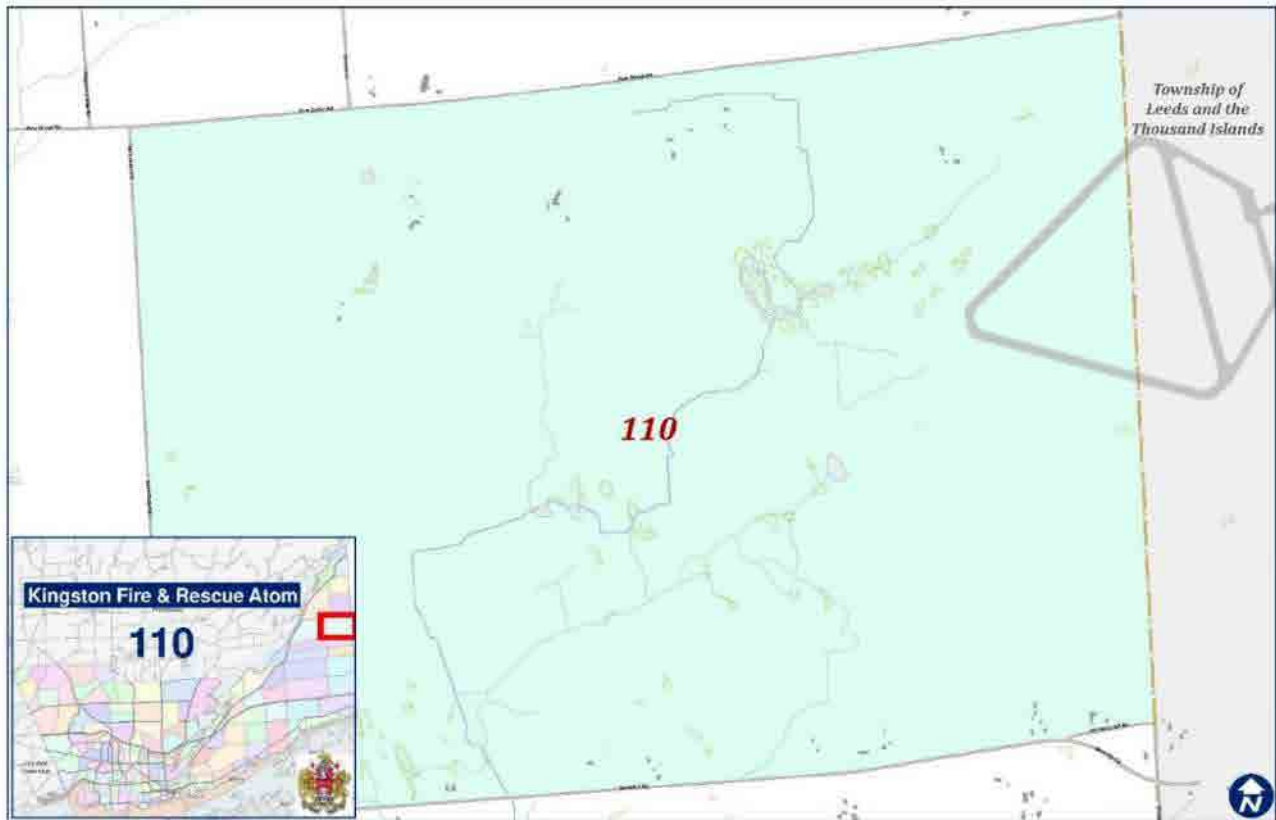
	Square Kilometre
ATOM #109	7.13
City of Kingston	450.40
ATOM Percentage of Total	1.6%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #109	\$250,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	2.3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #110 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest
- Open pit (quarry operation)
- Aircraft

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 8
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$249,875
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	Y

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #110	1	0	2	0	3
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM #110 First on Scene Response Time Baseline: 80th Percentile	11:44
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

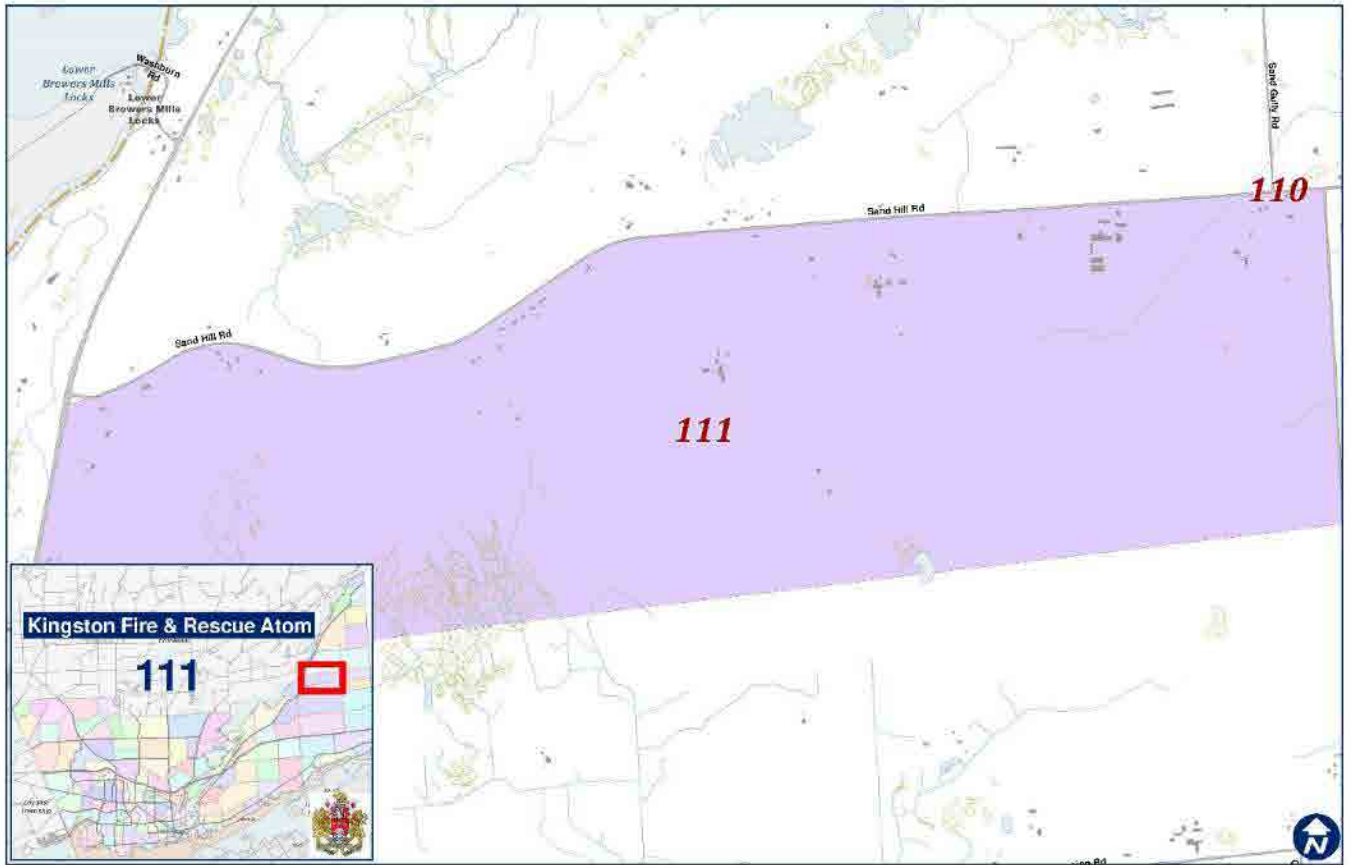
	Square Kilometre
ATOM #110	6.48
City of Kingston	450.40
ATOM Percentage of Total	1.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #110	\$4,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #111 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest
- Open pit (quarry operation)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 14
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$240,714
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	Y

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #111	2	0	2	1	5
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.0%	0.0%	0.01%	0.01%

2018-2020 Response Time

ATOM #111 First on Scene Response Time Baseline: 80th Percentile	12:44
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

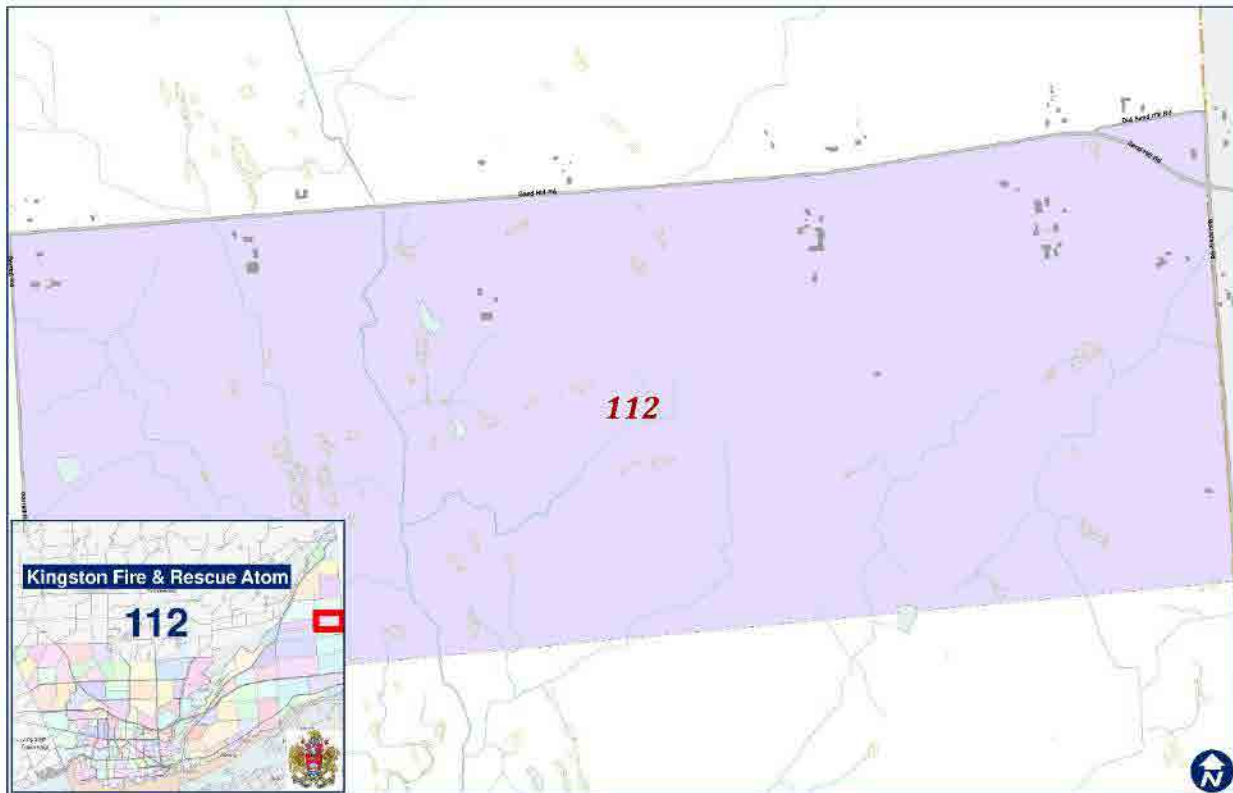
	Square Kilometre
ATOM #111	4.54
City of Kingston	450.40
ATOM Percentage of Total	1.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #111	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #112 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 6
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$377,333
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #112	1	1	0	0	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.01%	0.0%	0.0%	0.01%

2018-2020 Response Time

ATOM #112 First on Scene Response Time Baseline: 80th Percentile	10:51
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #112	3.08
City of Kingston	450.40
ATOM Percentage of Total	0.7%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #112	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #113 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Seasonal dwelling/Mobile home

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 29
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$419,345
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #113	4	4	1	0	9
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.01%	0.01%	0.0%	0.01%

2018-2020 Response Time

ATOM #113 First on Scene Response Time Baseline: 80th Percentile	15:37
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

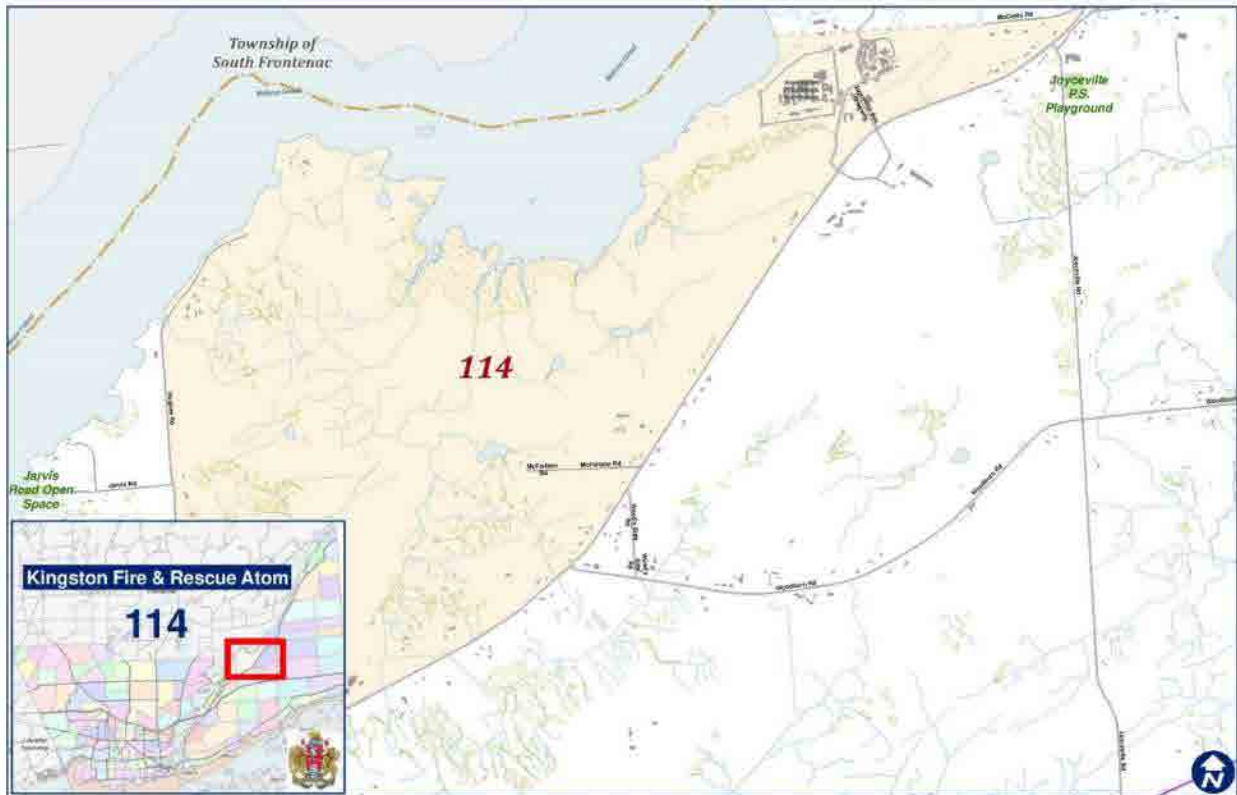
	Square Kilometre
ATOM #113	4.05
City of Kingston	450.40
ATOM Percentage of Total	0.9%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #113	\$153,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 114 – Rural – Low Risk



Structural Occupancy Type(s)

Group B Care and Detention Occupancies

- Persons under restraint

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group F Industrial

- Water tower (private)
- Electrical Facility

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- TransCanada Pipeline
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Power generating source (Large Generator – Private)

Single Family Residential Property

- ATOM Property Count: 24
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$268,500
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #114	2	0	0	0	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.0%	0.0%	0.0%	0.01%

2018-2020 Response Time

ATOM #114 First on Scene Response Time Baseline: 80th Percentile	14:33
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

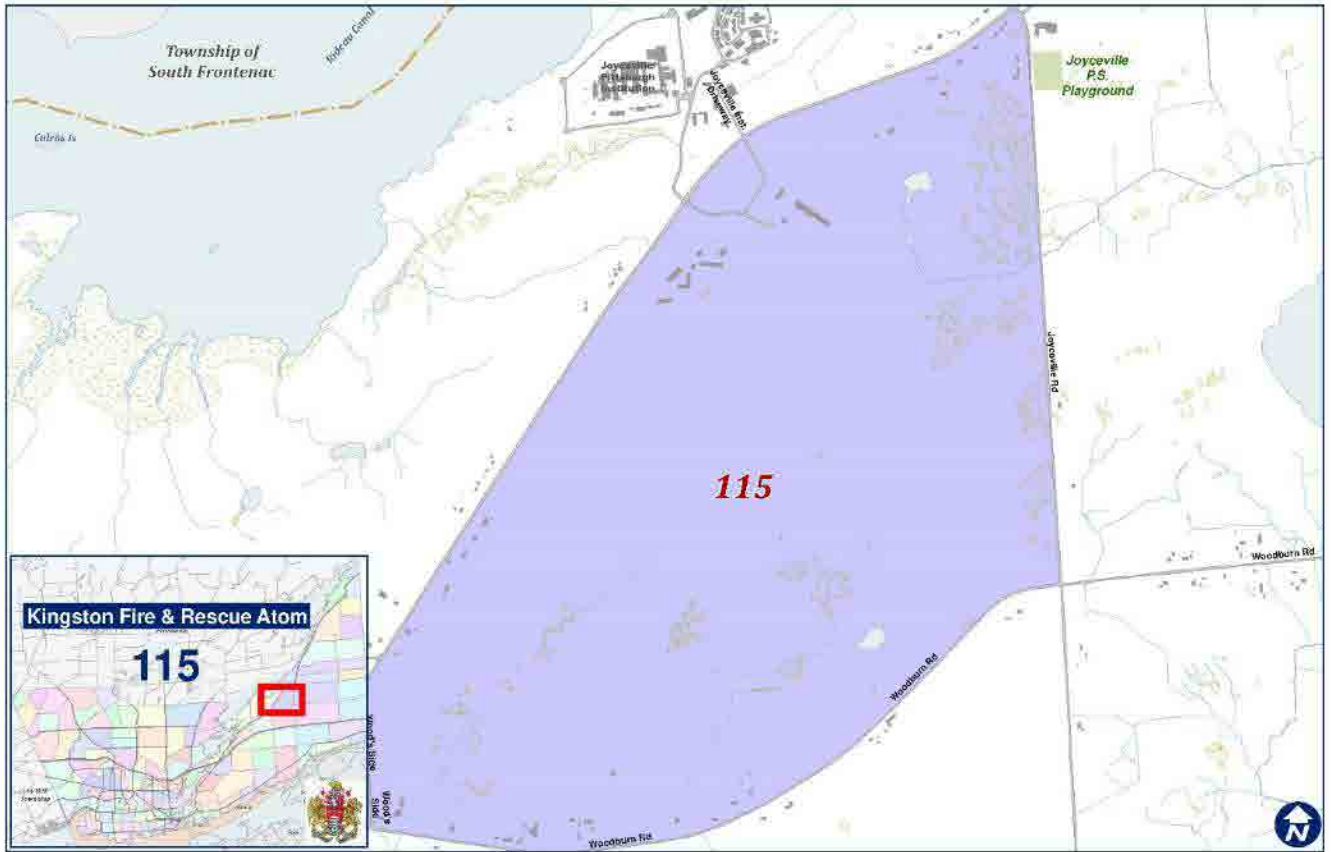
	Square Kilometre
ATOM #114	7.07
City of Kingston	450.40
ATOM Percentage of Total	1.6%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #114	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 115 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Storage vehicles, parts

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Brush/Forest
- Open pit (quarry operation)

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 26
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$266,462
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #115	0	0	1	1	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.01%	0.01%	0.01%

2018-2020 Response Time

ATOM #115 First on Scene Response Time Baseline: 80th Percentile	17:41
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

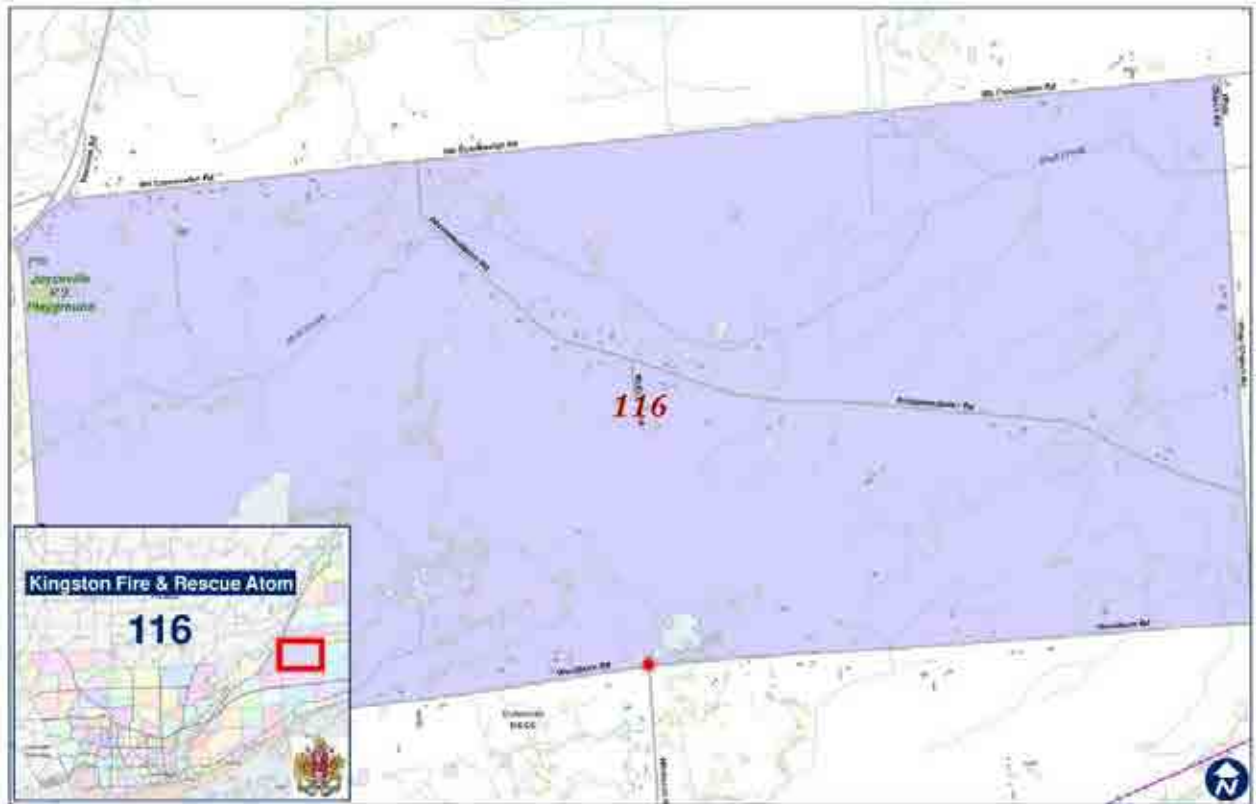
	Square Kilometre
ATOM #115	3.99
City of Kingston	450.40
ATOM Percentage of Total	0.9%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #115	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 116 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Vehicle sales/service
- Utilities – Electrical
- Utilities – Natural Gas

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- TransCanada Pipeline

Single Family Residential Property

- ATOM Property Count: 40
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$274,575
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #116	2	3	5	2	12
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.01%	0.01%	0.01%	0.01%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #116 First on Scene Response Time Baseline: 80th Percentile	13:37
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

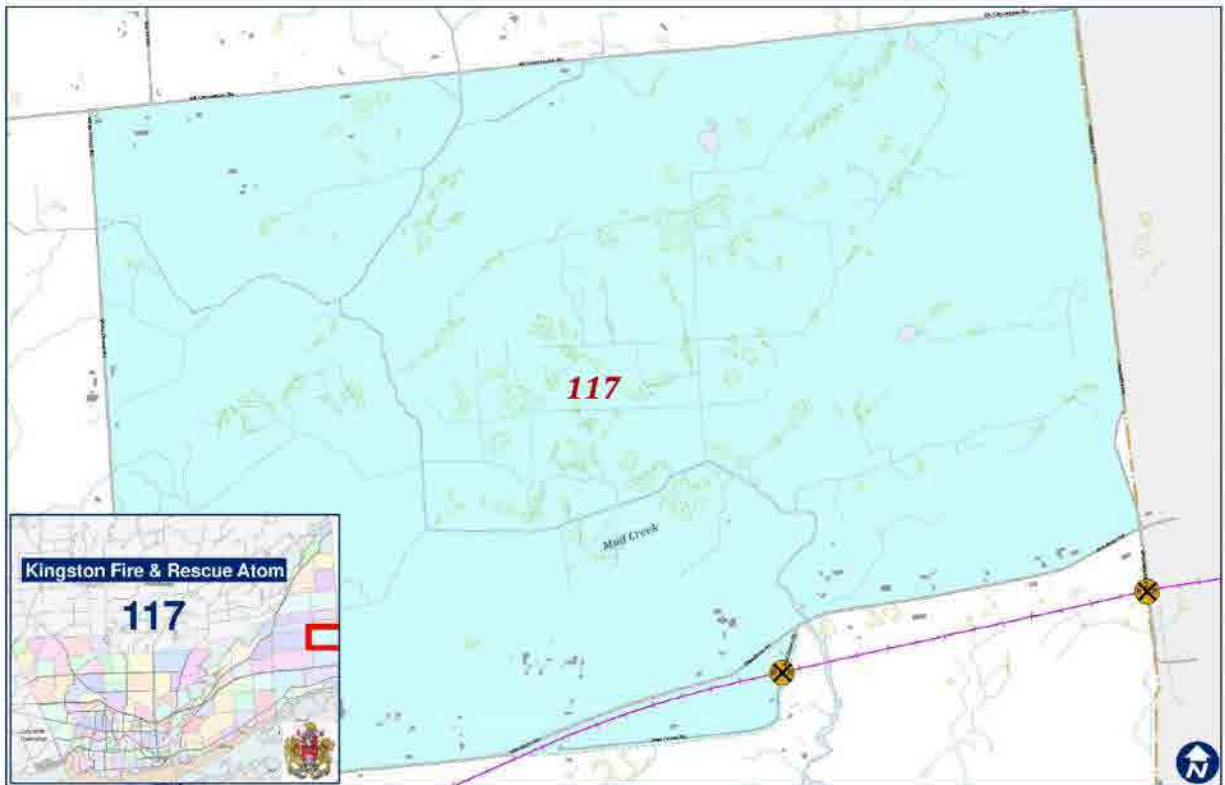
	Square Kilometre
ATOM #116	9.65
City of Kingston	450.40
ATOM Percentage of Total	2.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #116	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 117 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

Classed under National Farm Building Code

Non-Structural Type(s)

Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 9
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$240,333
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #117	2	0	1	0	3
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.0%	0.01%	0.0%	0.01%

2018-2020 Response Time

ATOM #117 First on Scene Response Time Baseline: 80th Percentile	12:35
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #117	6.30
City of Kingston	450.40
ATOM Percentage of Total	1.4%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #117	\$20,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.02%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 118 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly (Banquet, Church)

Group B Care and Detention Occupancies

- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Seasonal dwelling/Mobile home

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Chem/Petroleum /Paint/ Plastic products

Non-Structural Type(s)

- Sports field
- Parkland
- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Railway
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 104
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$277,048
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #118	7	10	18	2	37
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.0%	0.3%	0.1%	0.3%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #118 First on Scene Response Time Baseline: 80th Percentile	13:18
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

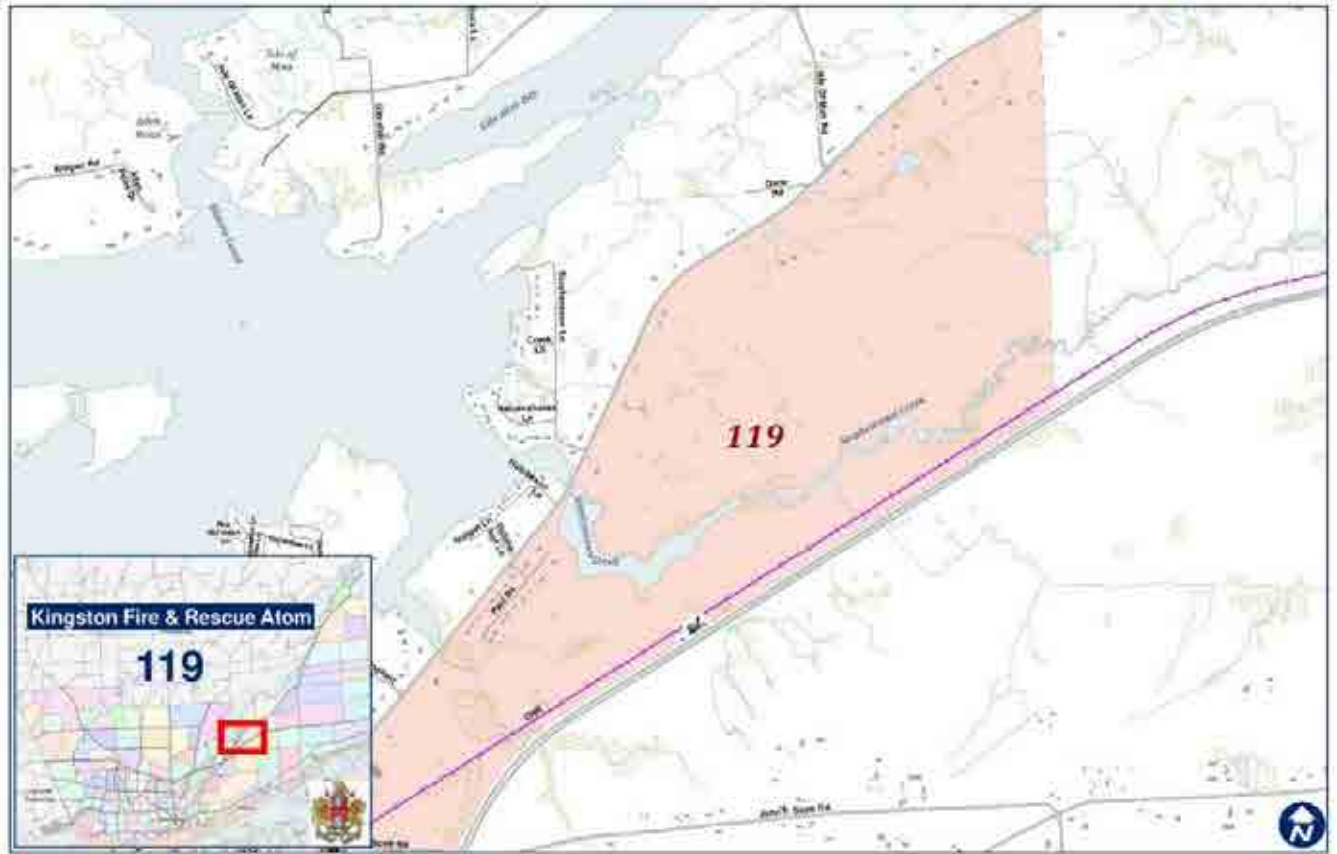
	Square Kilometre
ATOM #118	2.10
City of Kingston	450.40
ATOM Percentage of Total	0.5%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #118	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 119 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling
- Seasonal dwelling/Mobile home
- Hotel/Motel/Lodging
- Other residential

Group E Mercantile

- Food/beverage sales

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products

Structures/Properties not classified by the Ontario Building Code

Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Railway
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 31
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$240,184
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #119	2	2	3	3	10
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.01%	0.01%	0.2%	0.01%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #119 First on Scene Response Time Baseline: 80th Percentile	12:02
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

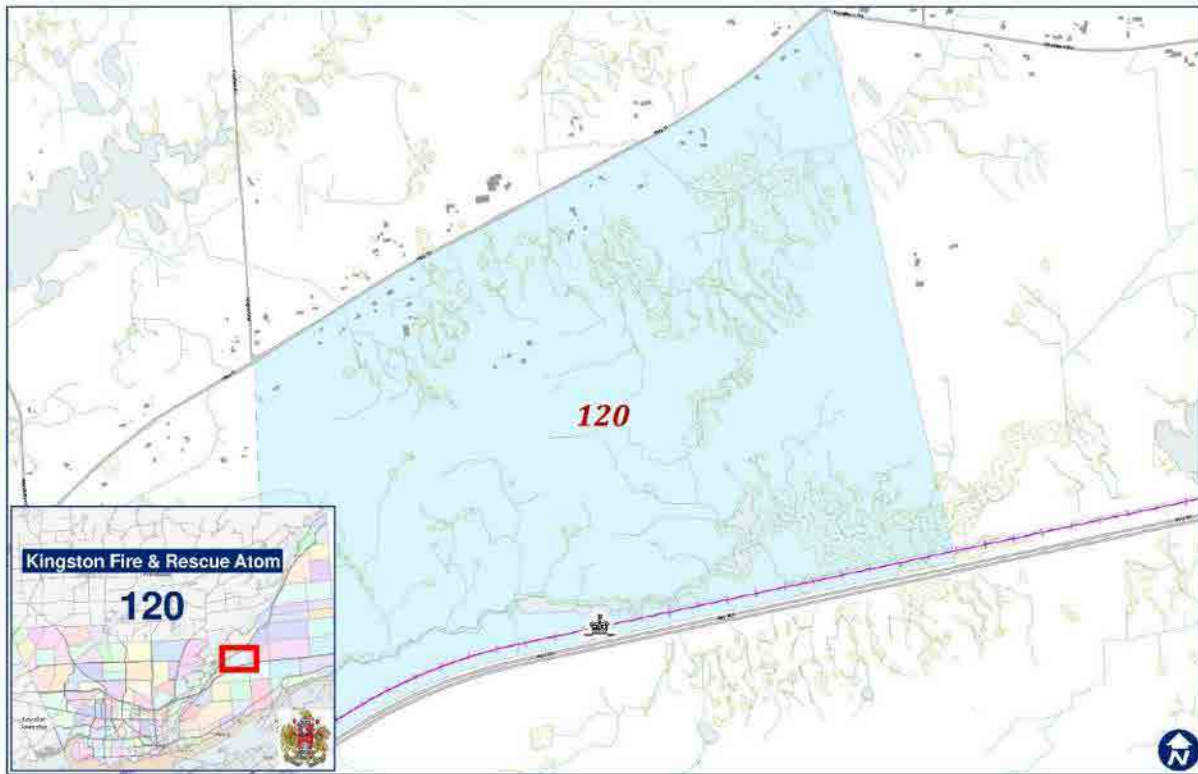
	Square Kilometre
ATOM #118	2.69
City of Kingston	450.40
ATOM Percentage of Total	0.6%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #119	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 120 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling
- Seasonal dwelling/Mobile home
- Hotel/Motel/Lodging
- Other residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Waterways
- Brush/Forest
- Open Pit - Quarry

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 7
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$232,286
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #120	1	0	0	1	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.0%	0.0%	0.01%	0.01%

2018-2020 RESPONSE TIME

ATOM #120 First on Scene Response Time Baseline: 80th Percentile	14:25
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

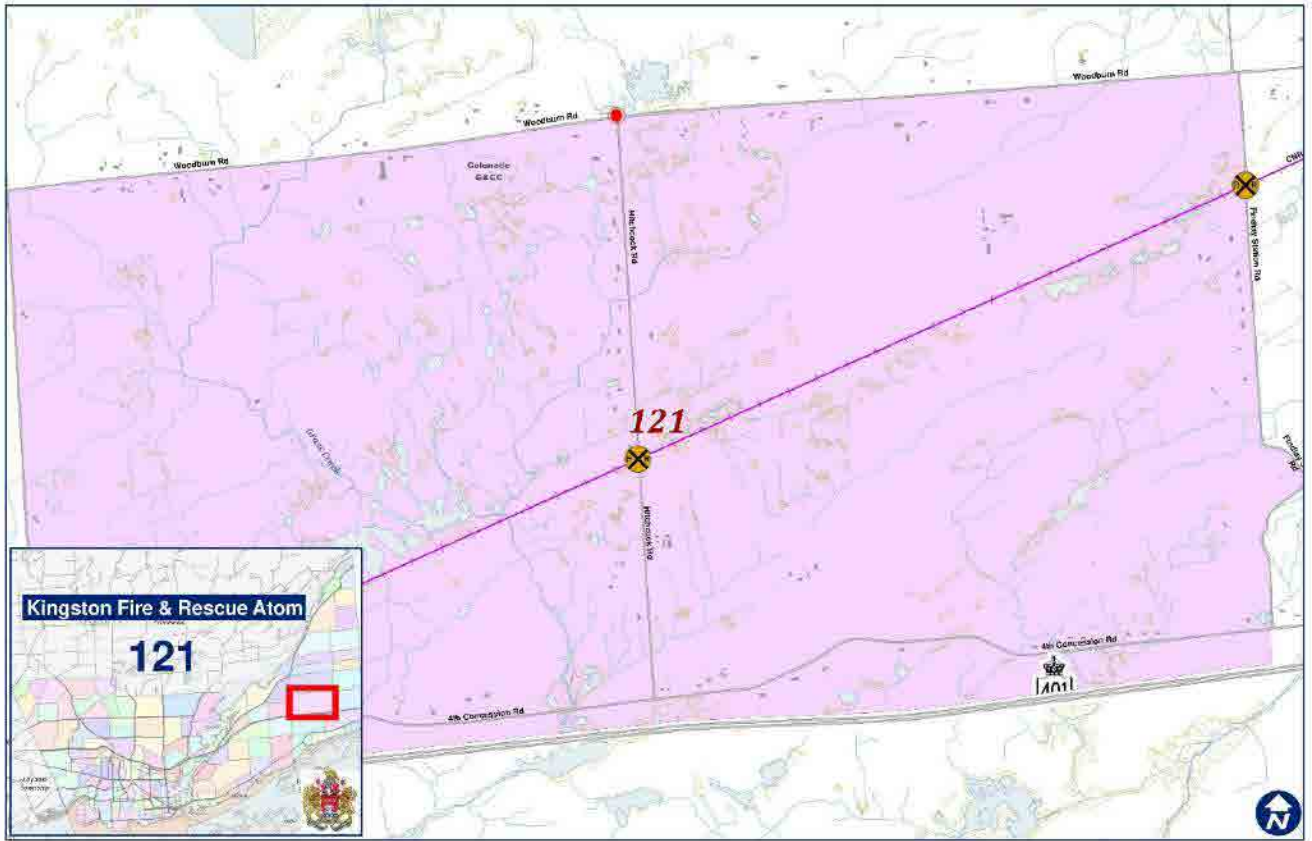
	Square Kilometre
ATOM #120	3.43
City of Kingston	450.40
ATOM Percentage of Total	0.8%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #120	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 121 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly (Banquet)

Group C Residential

- Detached/semi/attached residential

Group E Mercantile

- Food/beverage sales
- Specialty stores (Golf)

Group F Industrial

- Storage vehicles, parts

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structures/Properties not classified by the Ontario Building Code

Classed under National Farm Building Code

Non-Structural Type(s)

- Sports field (Golf)
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Railway
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 47
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$257,298
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #121	6	2	4	5	17
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.1%	0.1%	0.4%	0.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #121 First on Scene Response Time Baseline: 80th Percentile	12:15
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

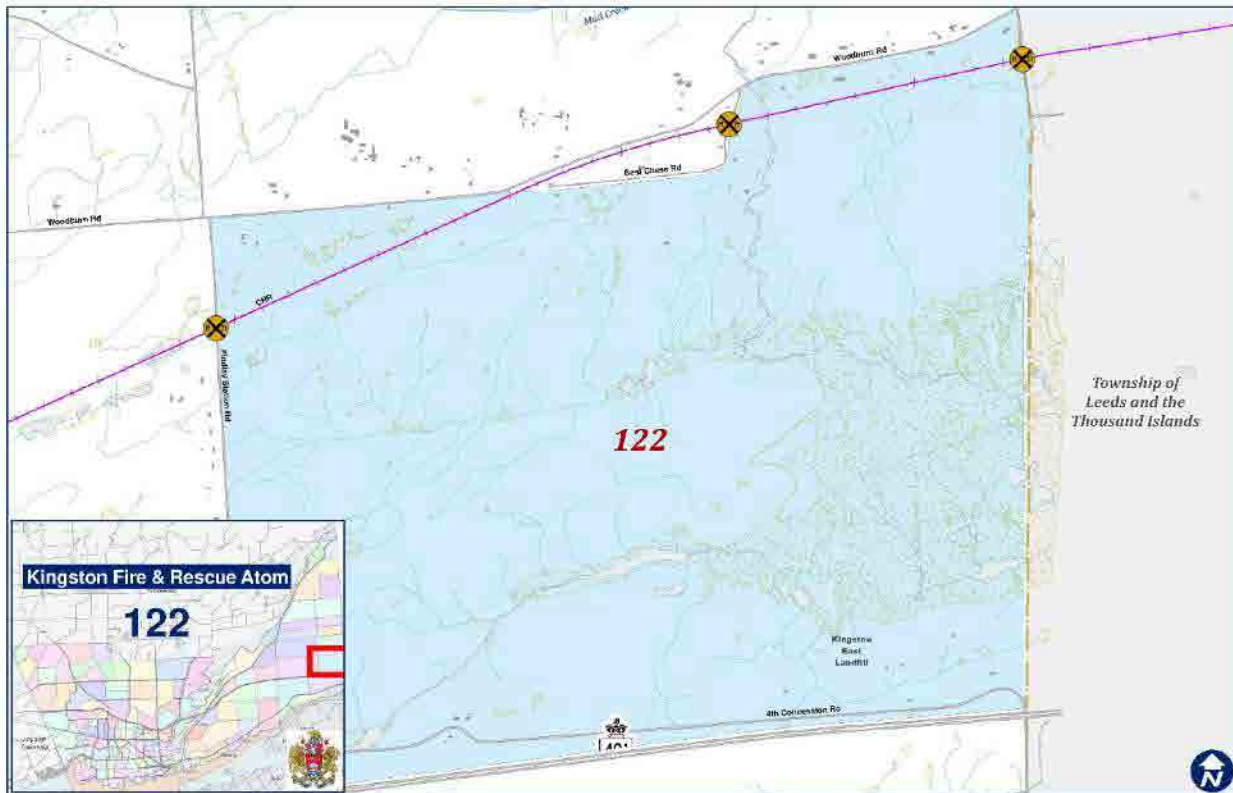
	Square Kilometre
ATOM #121	10.66
City of Kingston	450.40
ATOM Percentage of Total	2.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #121	\$11,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 122 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 11
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$251,364
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #122	1	1	2	0	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM #122 First on Scene Response Time Baseline: 80th Percentile	15:38
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #122	7.23
City of Kingston	450.40
ATOM Percentage of Total	1.6%

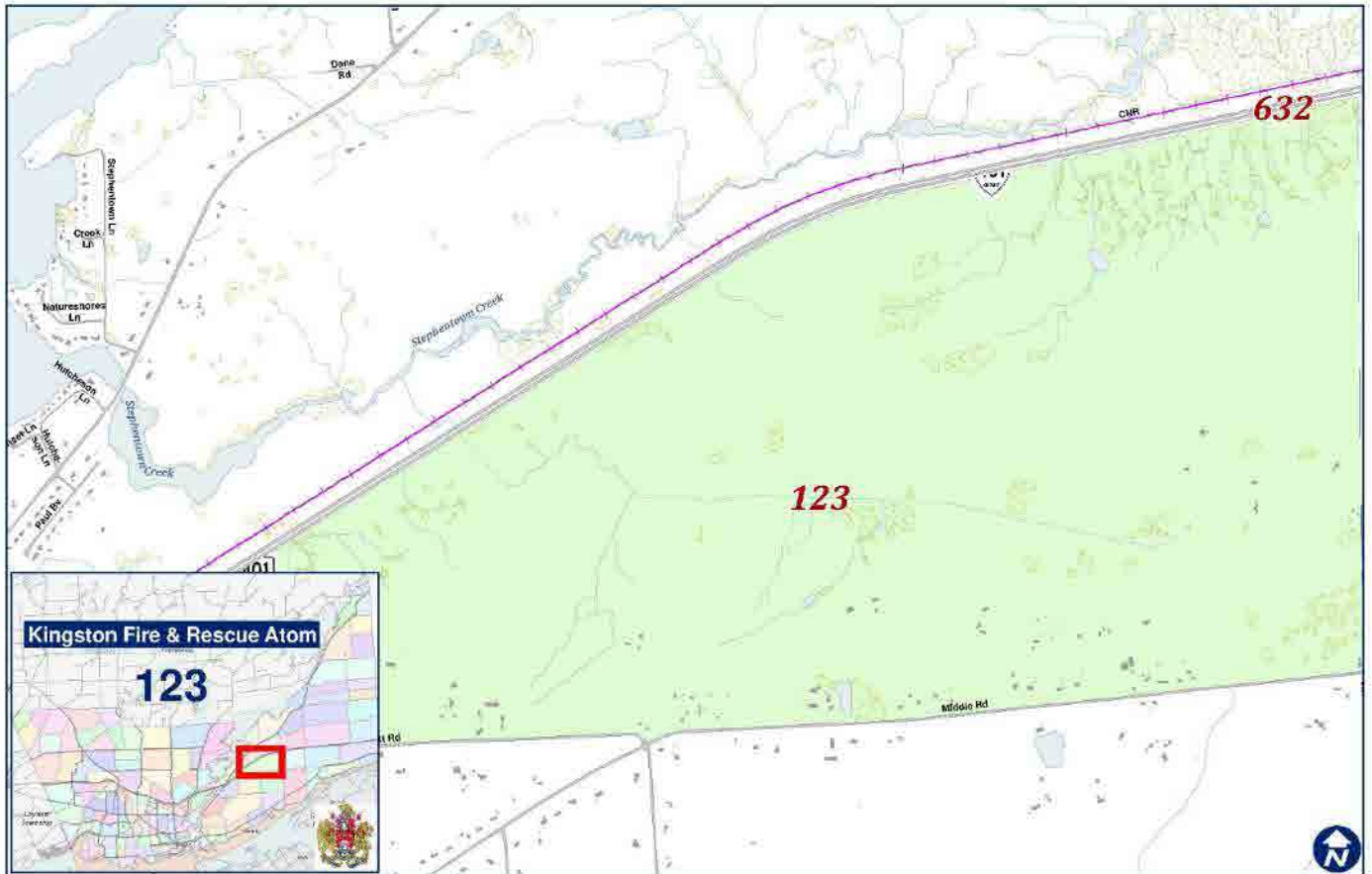
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #122	\$1,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 123 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores
- Other mercantile

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 25
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$332,480
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #123	0	0	1	0	1
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.01%	0.0%	0.01%

2018-2020 Response Time

ATOM #123 First on Scene Response Time Baseline: 80th Percentile	10:23
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

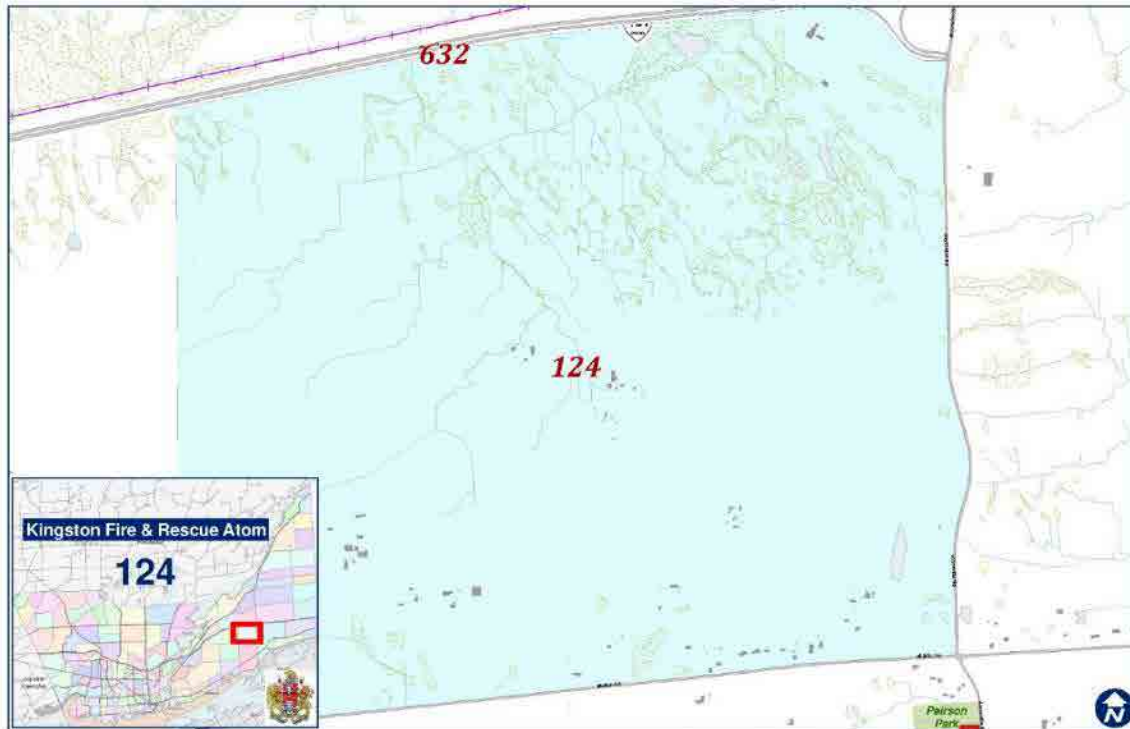
	Square Kilometre
ATOM #123	5.49
City of Kingston	450.40
ATOM Percentage of Total	1.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #123	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 124 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Chem/Petroleum /Paint/ Plastic products

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 10
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$286,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #124	0	1	3	0	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.01%	0.01%	0.0%	0.01%

2018-2020 Response Time

ATOM #124 First on Scene Response Time Baseline: 80th Percentile	14:05
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

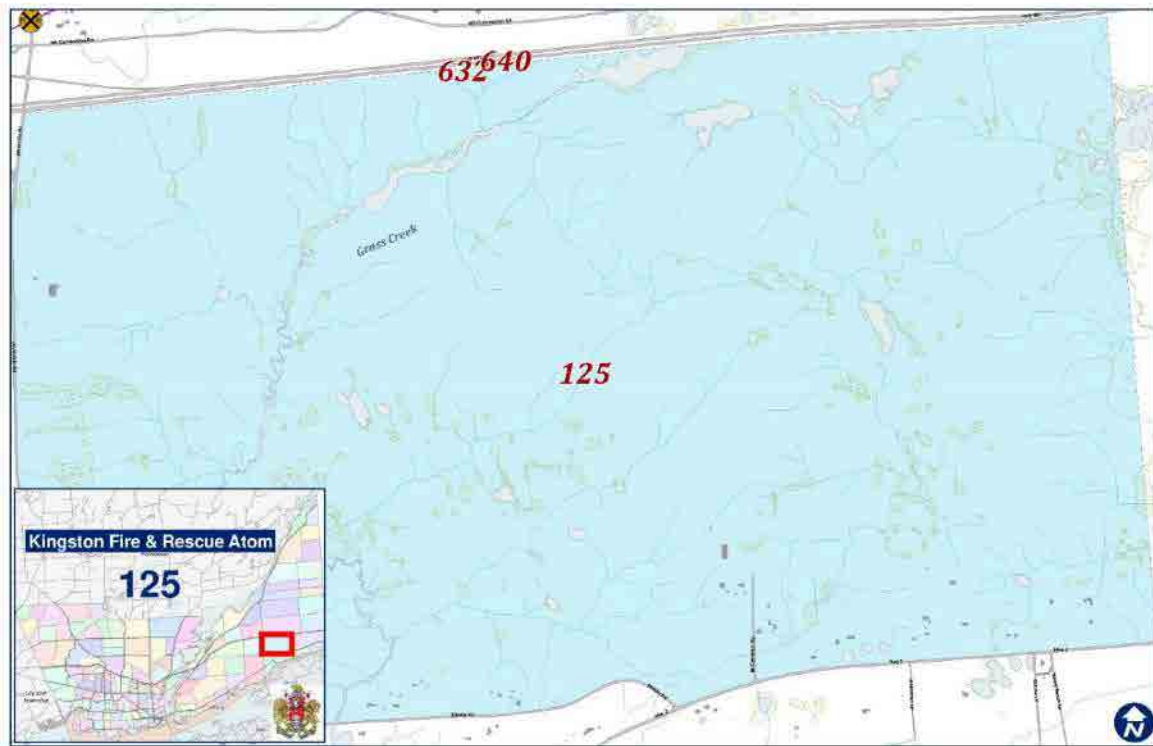
	Square Kilometre
ATOM #124	4.47
City of Kingston	450.40
ATOM Percentage of Total	1.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #124	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 125 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling
- Seasonal dwelling/Mobile home
- Hotel/Motel/Lodging
- Other residential

Group F Industrial

- Storage Wood/Furnace/Paper/print products (norterra)

Structures/Properties not classified by the Ontario Building Code

Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Communications tower
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 10
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$316,900
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #125	3	0	1	2	6
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.0%	0.01%	0.01%	0.01%

2018-2020 Response Time

ATOM #125 First on Scene Response Time Baseline: 80th Percentile	10:05
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

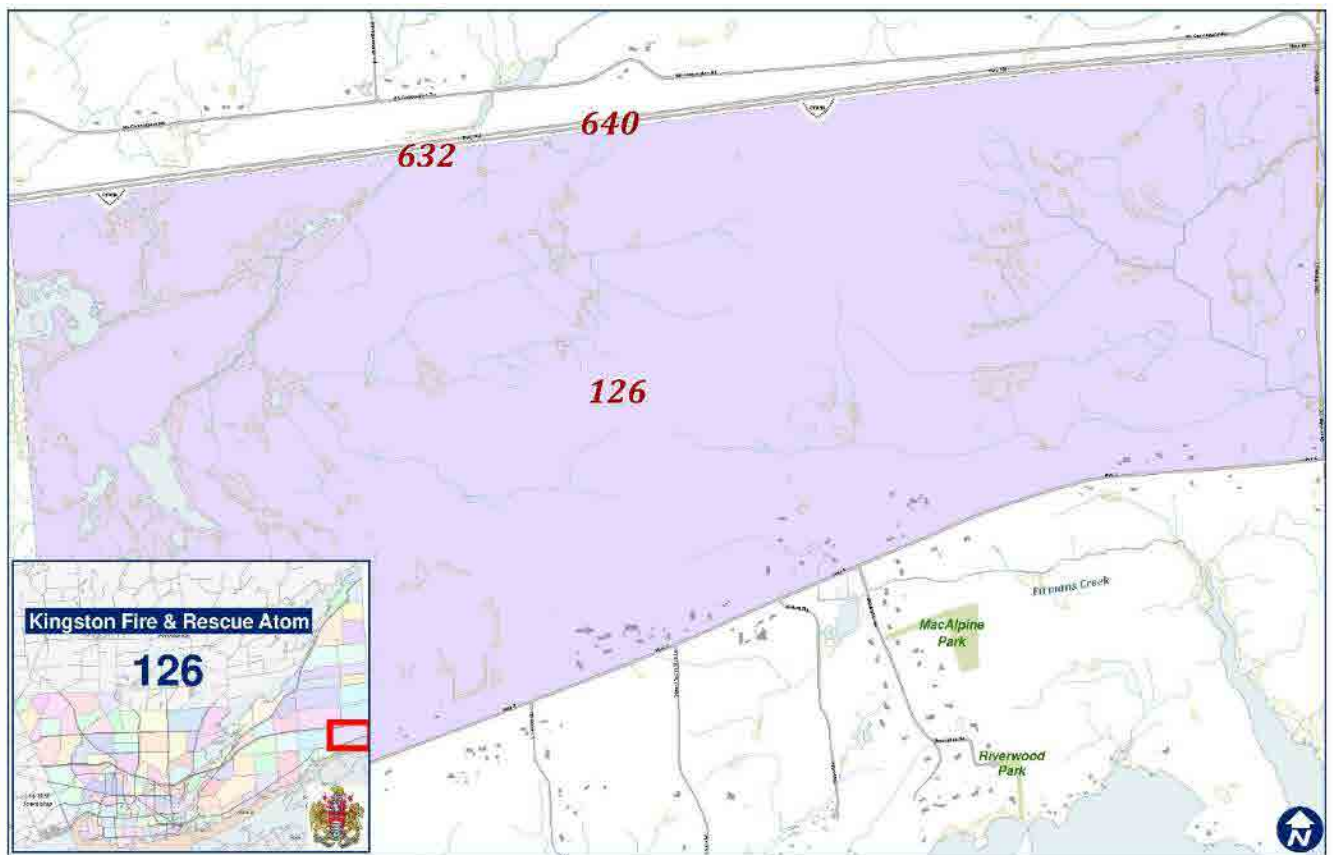
	Square Kilometre
ATOM #125	7.13
City of Kingston	450.40
ATOM Percentage of Total	1.6%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #125	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 126 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest
- Open Pit/Quarry

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 13
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$328,769
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #126	0	1	1	0	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.01%	0.01%	0.0%	0.01%

2018-2020 Response Time

ATOM #126 First on Scene Response Time Baseline: 80th Percentile	11:10
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #126	6.92
City of Kingston	450.40
ATOM Percentage of Total	1.5%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #126	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 127- Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling
- Seasonal dwelling/Mobile home
- Hotel/Motel/Lodging
- Other residential

Group F Industrial

Utilities – Electrical

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Waterways
- Trails
- Marina (Locks)
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Railway
- Bridge
- Electrical distribution 1 (to structures)
- Power generating source (Water Dam/Hydro)
- Communications tower

Single Family Residential Property

- ATOM Property Count: 12
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$282,667
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #127	3	1	0	4	8
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.0%	0.3%	0.1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #127 First on Scene Response Time Baseline: 80th Percentile	11:47
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #127	9.36
City of Kingston	450.40
ATOM Percentage of Total	2.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #127	\$18,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 128 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Mfg/process other metal/elect/misc product (cancoil)

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Railway
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 3
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$284,667
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #128	1	1	0	4	6
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.0%	0.3%	0.1%

2018-2020 Response Time

ATOM #128 First on Scene Response Time Baseline: 80th Percentile	10:01
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #128	0.44
City of Kingston	450.40
ATOM Percentage of Total	0.1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #128	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 129 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Rooming/Boarding
- Seasonal dwelling/Mobile home
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products
- Agr/Food/Bev/Tobac products
- Storage other metal/elect/misc products
- Storage vehicles, parts

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 19
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$412,780
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #129	0	3	8	4	15
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM #129 First on Scene Response Time Baseline: 80th Percentile	10:42
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

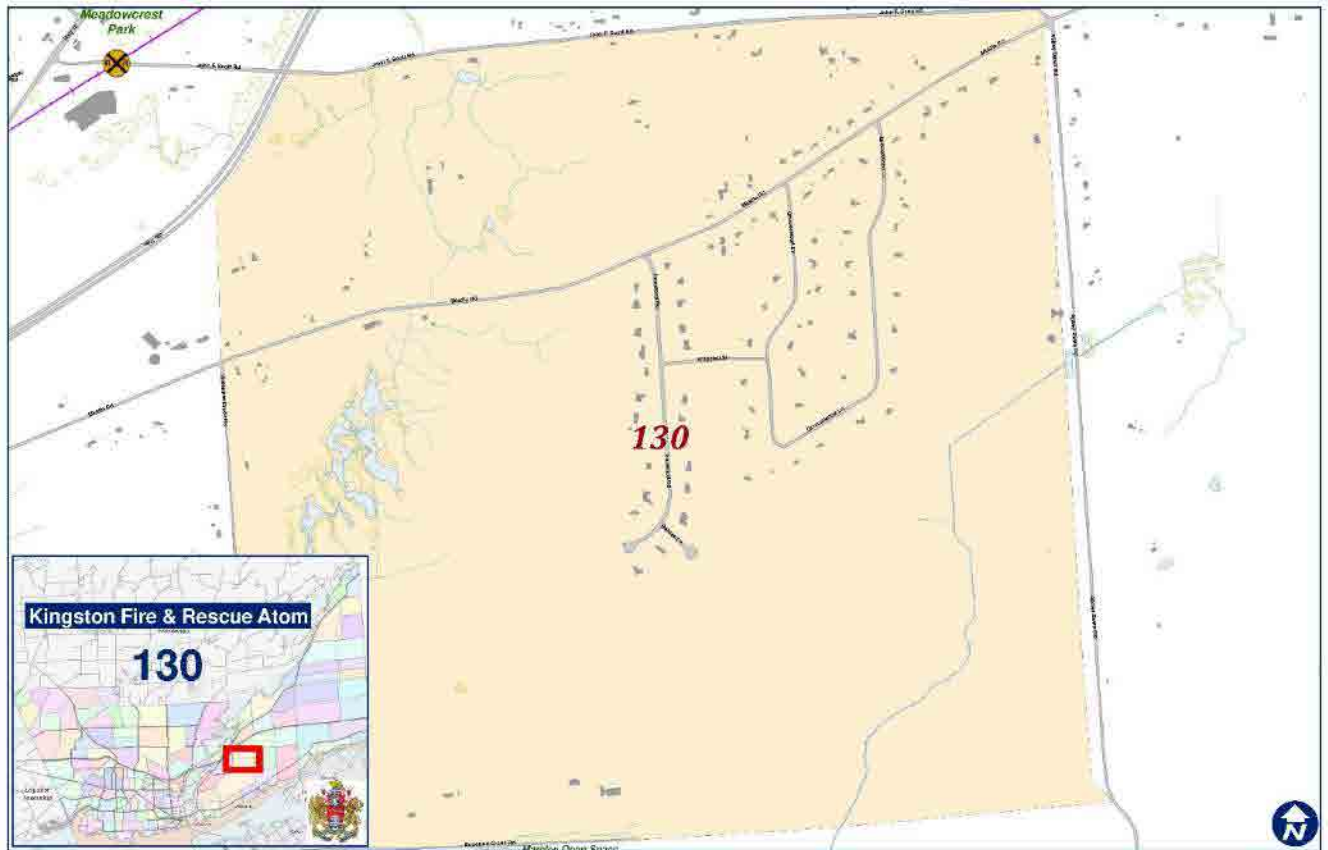
	Square Kilometre
ATOM #129	3.43
City of Kingston	450.40
ATOM Percentage of Total	0.8%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #129	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 130 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group F Industrial

- Chem/Petroleum /Paint/ Plastic products (GR Insulation)
- Mfg/process other (Terrazzo Tile)

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Power generating source (solar farm)

Single Family Residential Property

- ATOM Property Count: 82
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$479,220
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #130	3	4	12	2	10
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.2%	0.1%	0.1%

2018-2020 Response Time

ATOM #130 First on Scene Response Time Baseline: 80th Percentile	11:16
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #130	4.88
City of Kingston	450.40
ATOM Percentage of Total	1.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #130	\$4,500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 131 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Storage vehicles, parts

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structures/Properties not classified by the Ontario Building Code

Classed under National Farm Building Code

Non-Structural Type(s)

- Sports field (golf)
- Waterways
- Marina(multiply water craft)
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 185
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$511,643
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #131	4	5	10	3	22
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.2%	0.2%	0.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #131 First on Scene Response Time Baseline: 80th Percentile	14:26
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

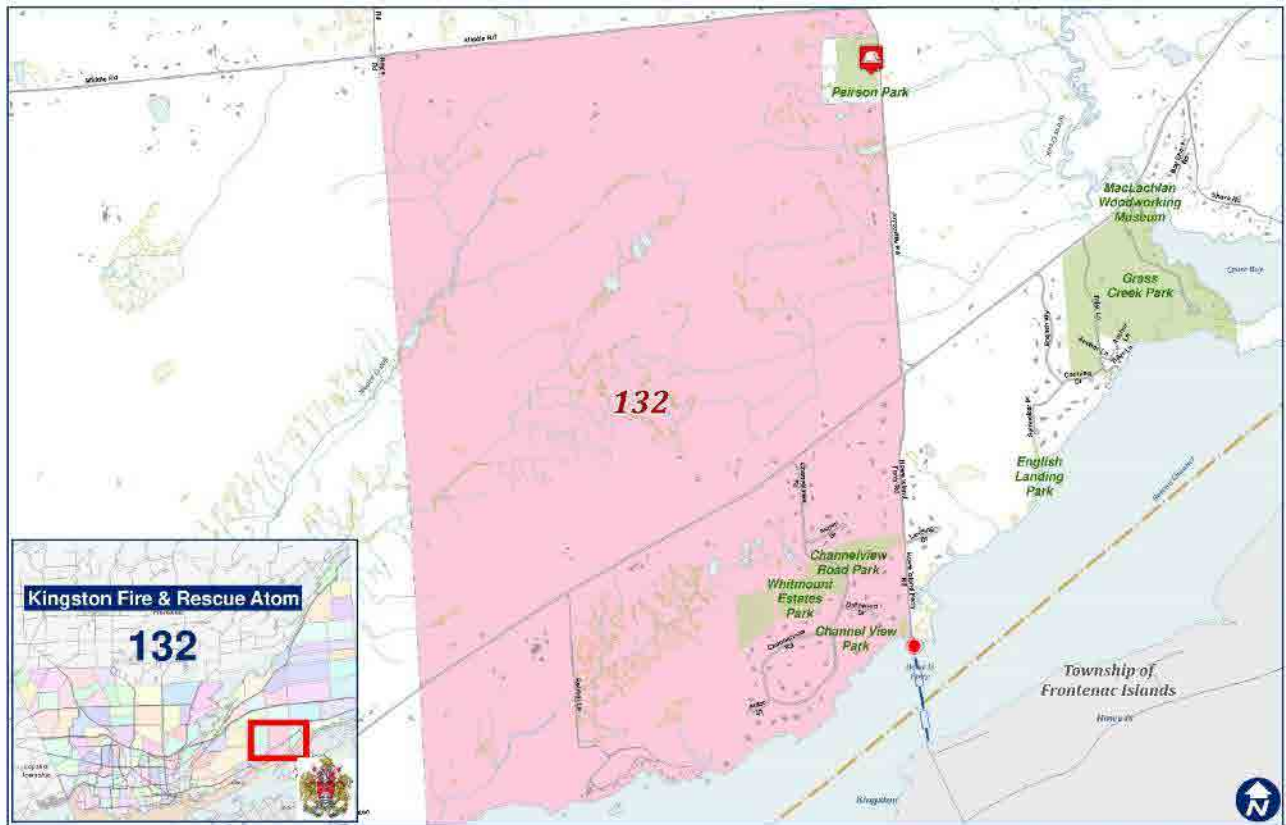
	Square Kilometre
ATOM #131	4.90
City of Kingston	450.40
ATOM Percentage of Total	1.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #131	\$21,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 132 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group F Industrial

- Mfg/process Wood/Furn/Paper/print products

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 74
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$535,757
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #132	5	1	2	3	11
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.1%	0.2%	0.1%

2018-2020 Response Time

ATOM #132 First on Scene Response Time Baseline: 80th Percentile	11:58
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

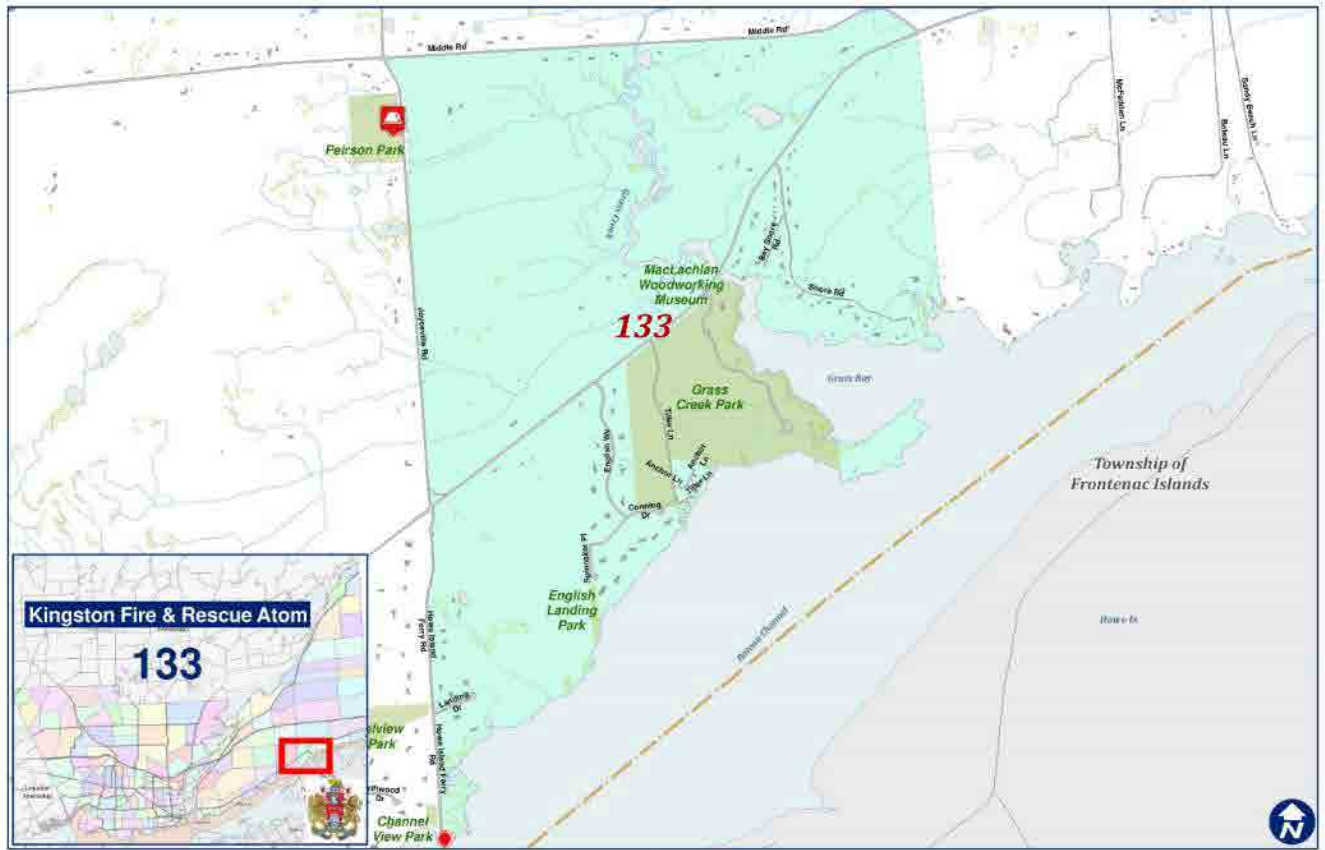
	Square Kilometre
ATOM #132	8.11
City of Kingston	450.40
ATOM Percentage of Total	1.8%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #132	\$2,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 133 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 80
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$595,900
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	N	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #133	7	2	5	11	25
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.03%	0.1%	0.1%	0.8%	0.2%

2018-2020 Response Time

ATOM #133 First on Scene Response Time Baseline: 80th Percentile	09:41
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

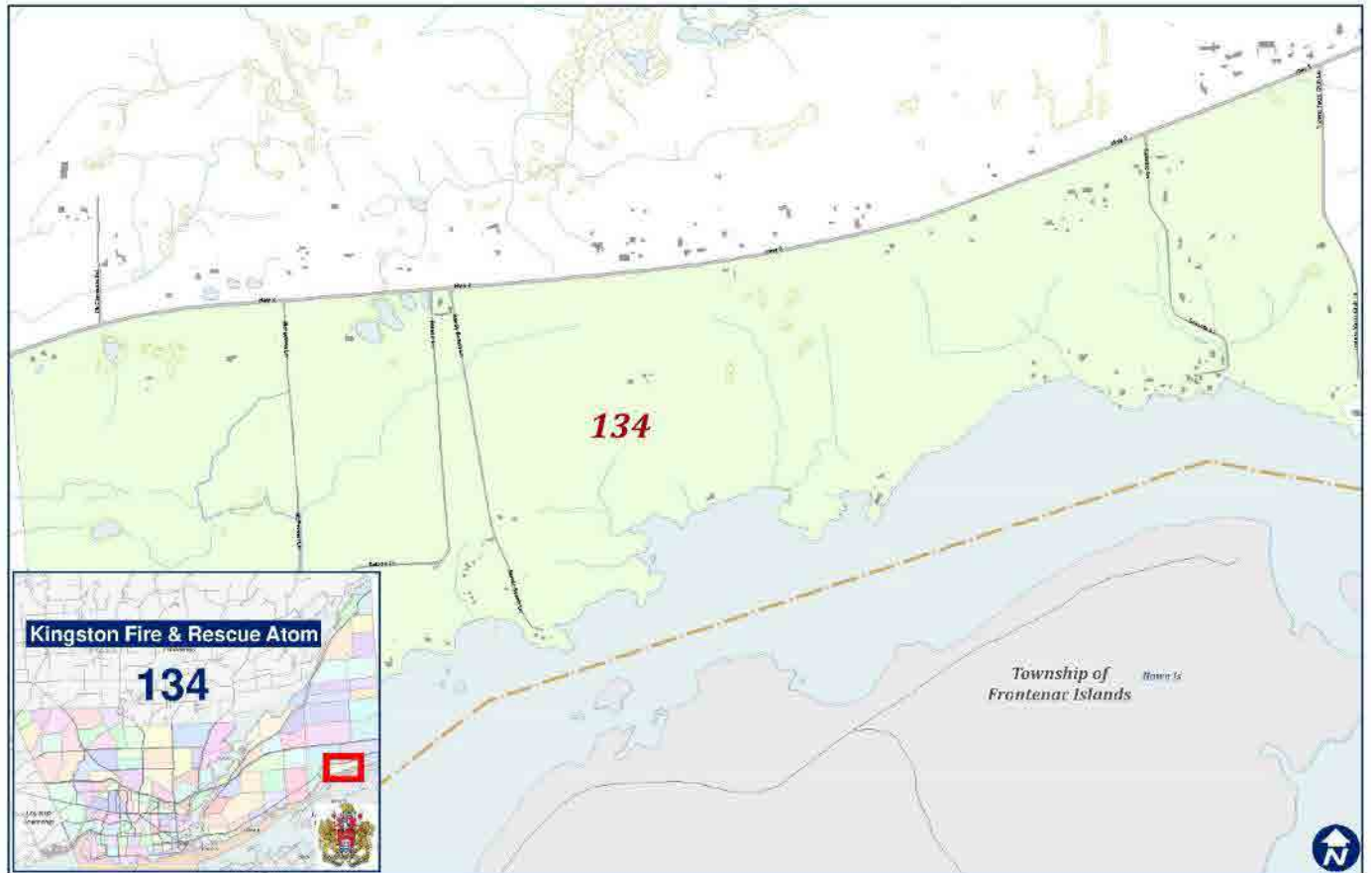
	Square Kilometre
ATOM #133	3.93
City of Kingston	450.40
ATOM Percentage of Total	0.9%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #133	\$260,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 134 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest
- Waterways

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 33
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$665,636
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #134	4	1	3	2	10
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM #134 First on Scene Response Time Baseline: 80th Percentile	13:03
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

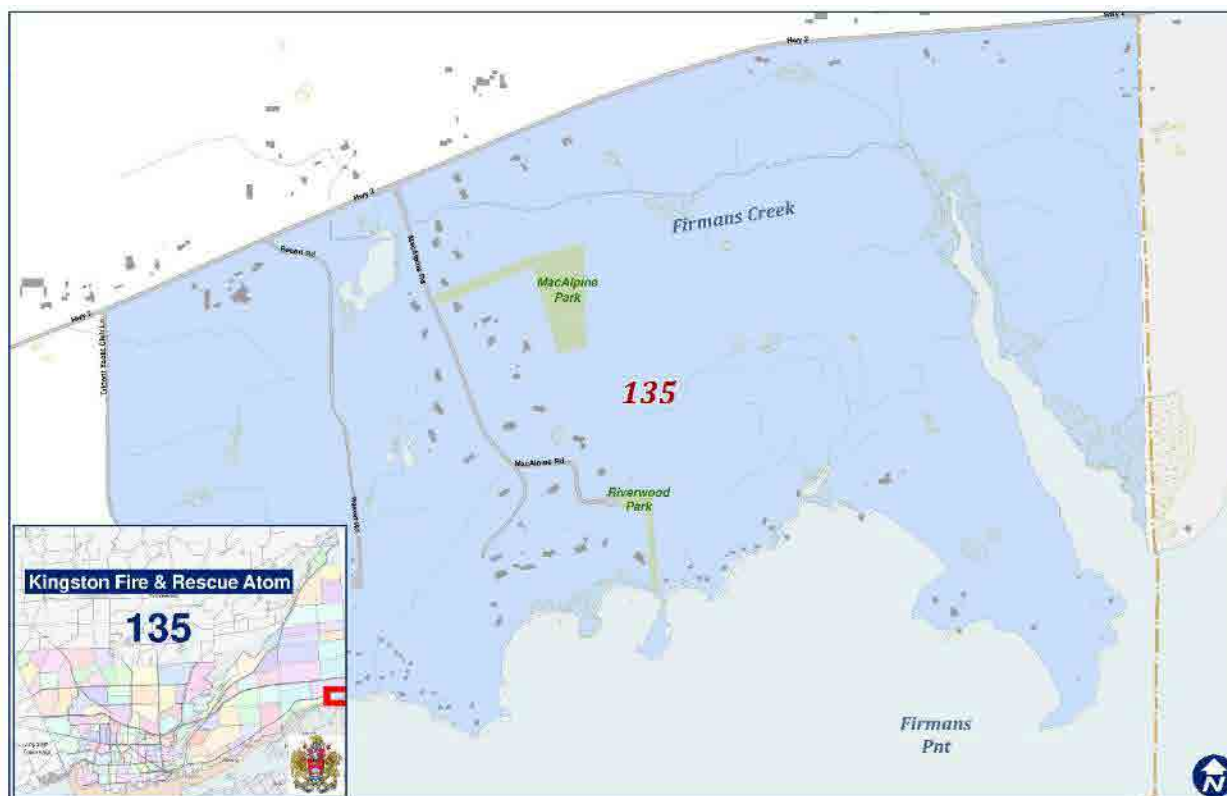
	Square Kilometre
ATOM #134	3.07
City of Kingston	450.40
ATOM Percentage of Total	0.7%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #134	\$230,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 135 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly (Banquet)

Group C Residential

- Detached/semi/attached residential
- Seasonal dwelling/Mobile home

Group E Mercantile

- Food/beverage sales

Structures/Properties not classified by the Ontario Building Code

Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Open (outdoor) storage -Boats

Single Family Residential Property

- ATOM Property Count: 32
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$478,375
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #135	2	0	3	0	5
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM #135 First on Scene Response Time Baseline: 80th Percentile	15:31
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

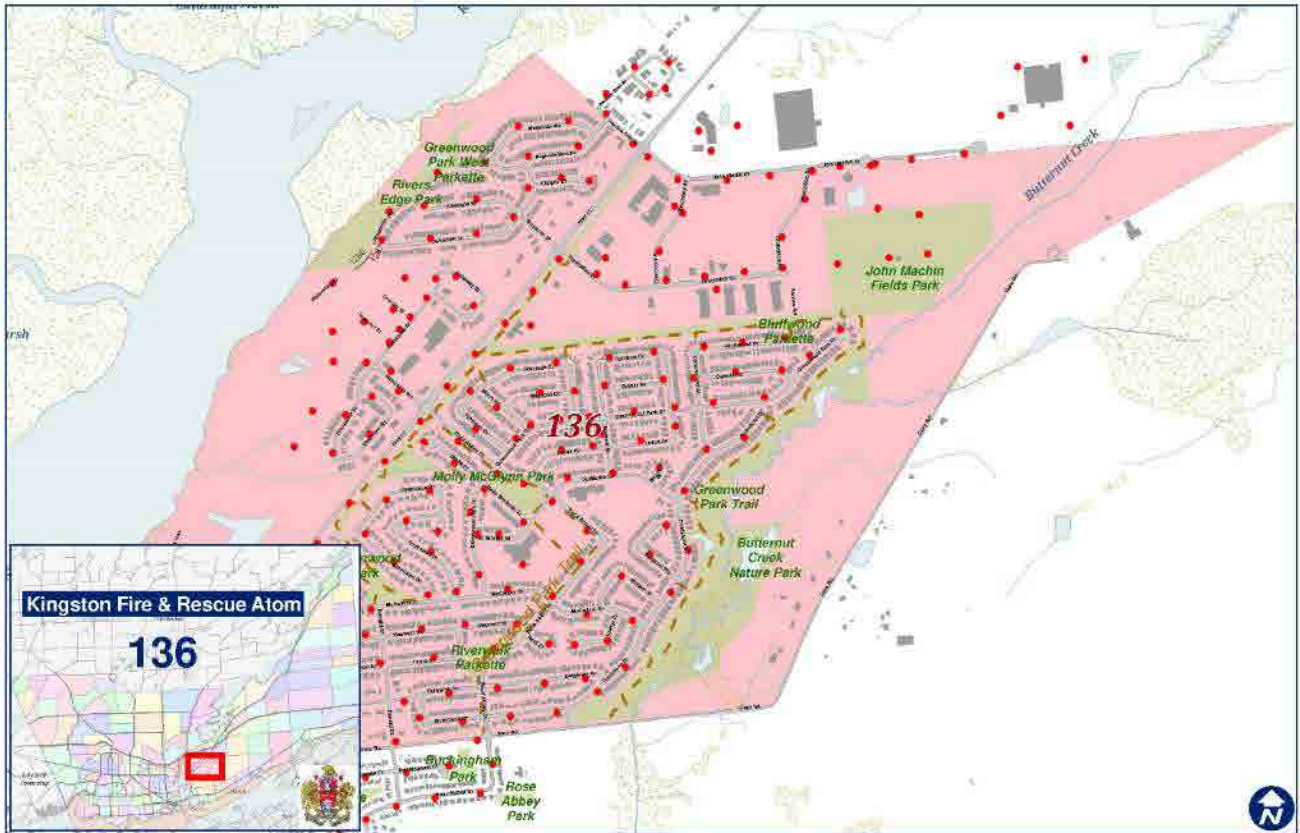
	Square Kilometre
ATOM #135	2.13
City of Kingston	450.40
ATOM Percentage of Total	0.5%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #135	\$40,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 136 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores
- Other mercantile

Group F Industrial

- Wood/Furn/Paper/print products
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Water tower

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 1360
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$346,851
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #136	22	32	114	8	176
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	2%	0.5%	1.5%

2018-2020 Response Time

ATOM #136 First on Scene Response Time Baseline: 90th Percentile	11:10
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Land Area

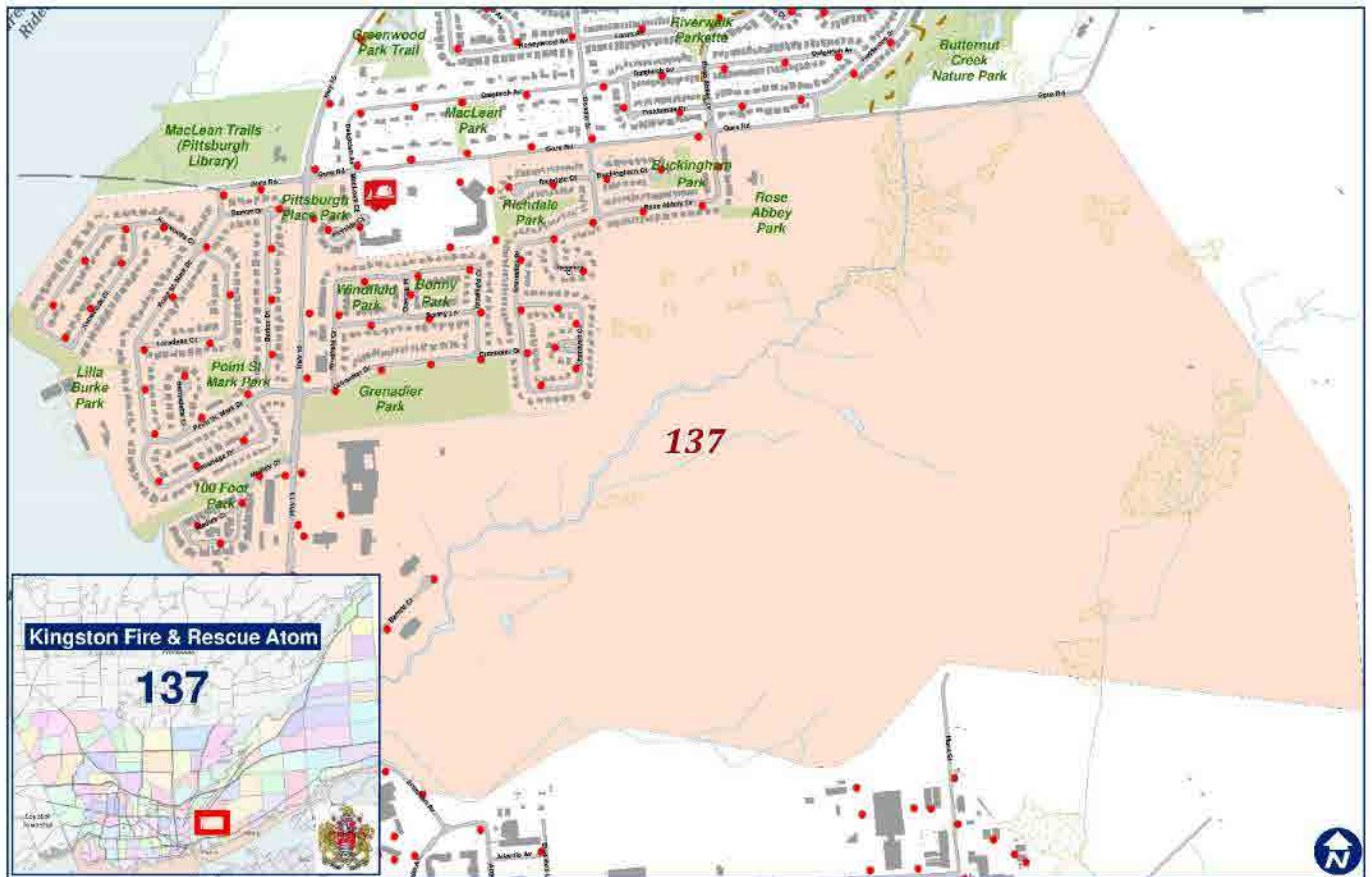
	Square Kilometre
ATOM #136	3.58
City of Kingston	450.40
ATOM Percentage of Total	0.8%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #136	\$60,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 137- Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Group F Industrial

- Chem/Petroleum /Paint/ Plastic products

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Marina(multiply water craft)
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 694
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$315,481
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #137	13	34	54	9	110
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	1%	1%

2018-2020 Response Time

ATOM #137 First on Scene Response Time Baseline: 90th Percentile	10:00
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Land Area

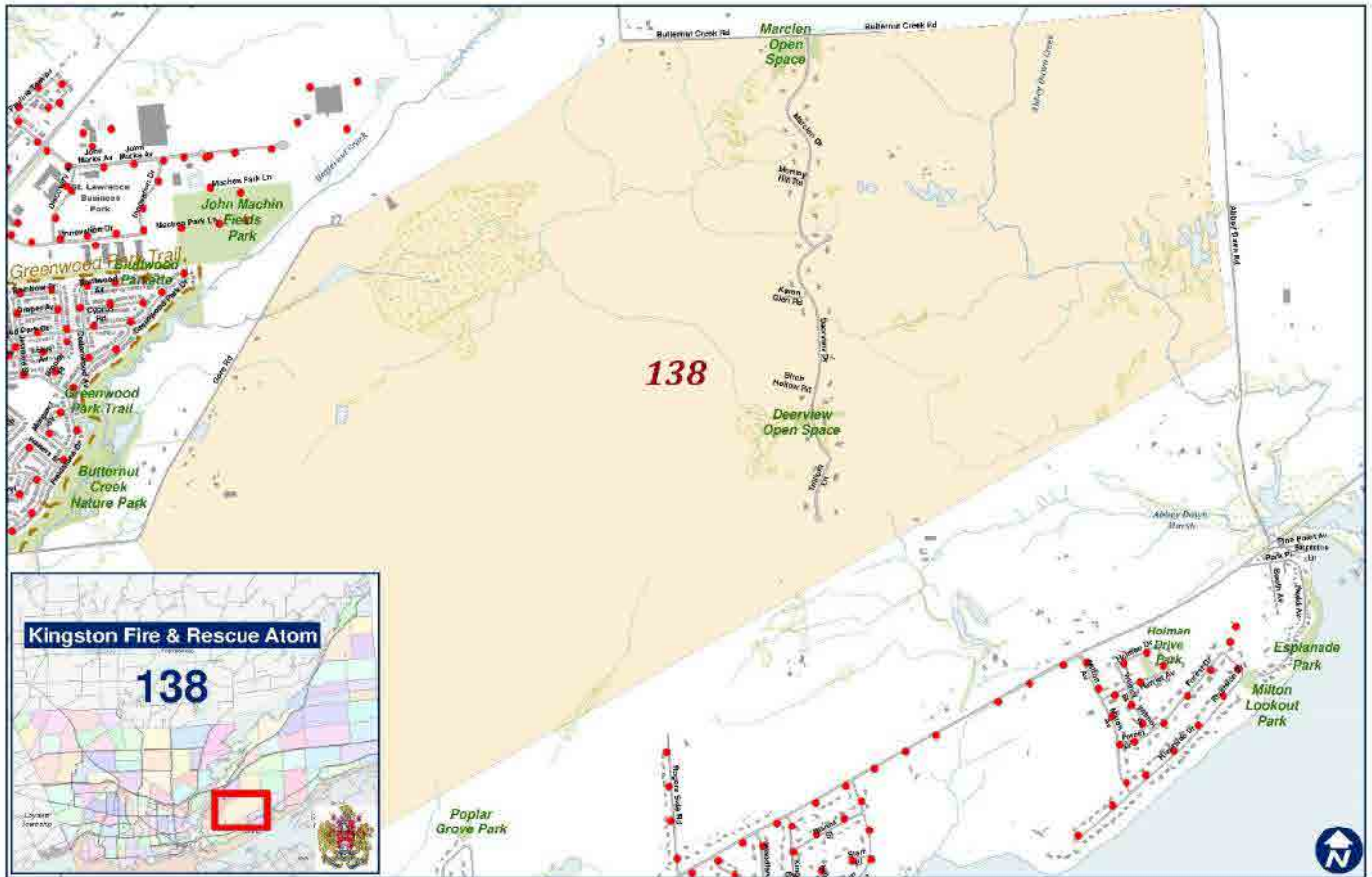
	Square Kilometre
ATOM #137	3.20
City of Kingston	450.40
ATOM Percentage of Total	0.7%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #137	\$2,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 138 – Rural – Low Risk



Structural Occupancy Type(s)

Group B Care and Detention Occupancies

- Persons under restraint

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 33
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$556,667
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #138	3	2	10	0	15
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.01%	0.02%	0.0%	0.01%

2018-2020 Response Time

ATOM #138 First on Scene Response Time Baseline: 80th Percentile	13:09
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #138	8.77
City of Kingston	450.40
ATOM Percentage of Total	1.9%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #138	\$1,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 139 – Urban – Low Risk



Group A Assembly Occupancies

- Museum
- Recreation/sports facility
- Arenas/Swimming pools
- Participating/Viewing Open Air Facilities
- Other assembly

Group B Care and Detention Occupancies

- Persons under restraint

Group C Residential

- Detached/semi/attached residential
- Rooming/Boarding
- Multi-unit dwelling

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Utilities – Water Treatment
- Utilities – Sewage Treatment
- Storage Chem/Petrol/Paint/Plastic products
- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Parkland
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 74
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$485,108
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #139	9	10	57	3	79
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.03%	1%	0.02%	1%

2017-2019 Response Time

ATOM #139 First on Scene Response Time Baseline: 90th Percentile	08:54
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Land Area

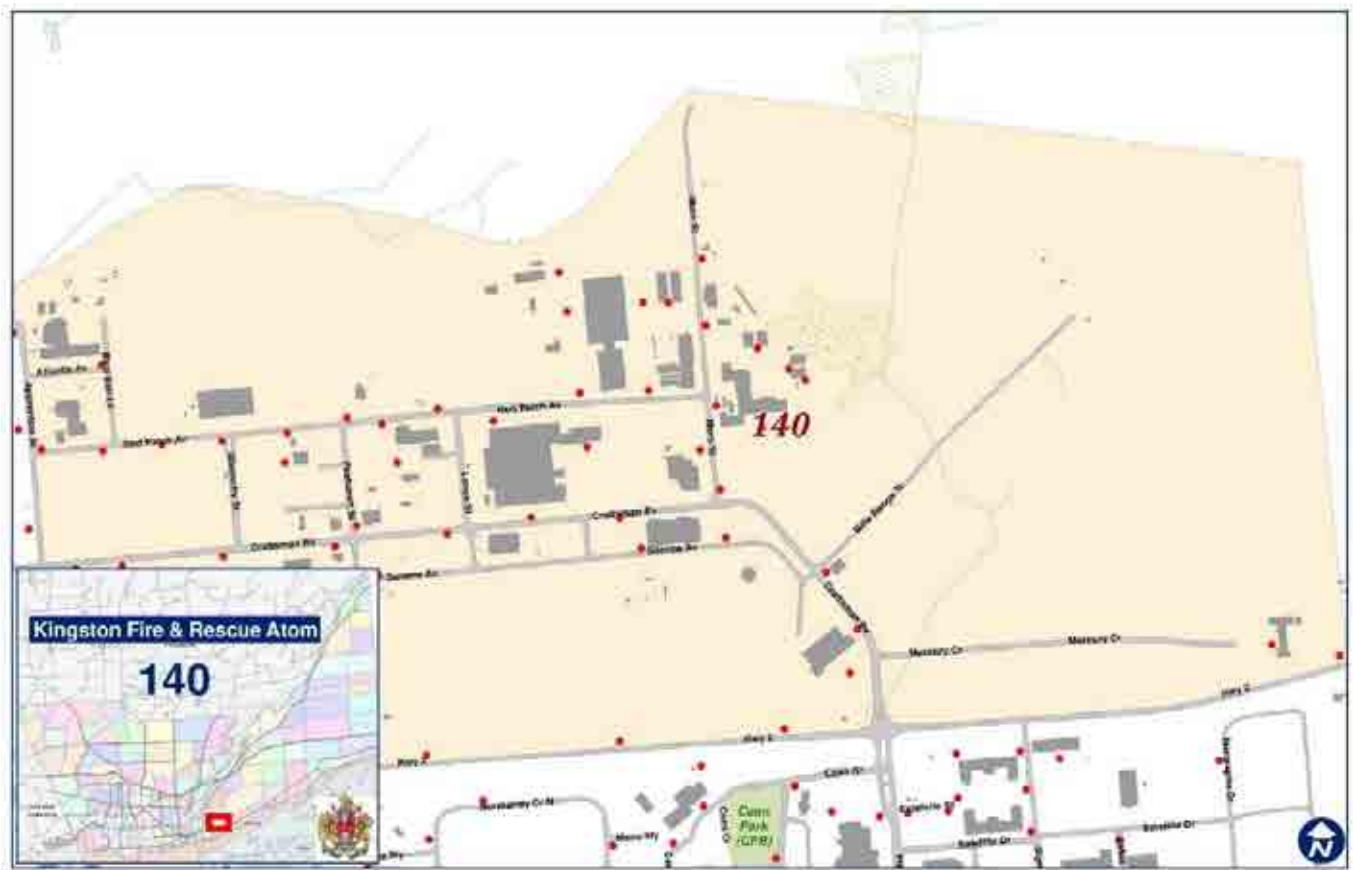
	Square Kilometre
ATOM #139	0.86
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #139	\$10,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 140 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Museum/Art gallery/Auditorium
- Education facility - Military
- Transportation Facility - Military
- Other assembly

Group C Residential

- Rooming/Boarding
- Multi-unit dwelling

Group F Industrial

- Vehicle service.

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

- Chem/Petroleum /Paint/ Plastic products
- Storage Textile/cloth/leather products
- Storage wood/Furn/Paper/print products
- Mfg/process other metal/elect/misc products
- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Water tower

Non-Structural Type(s)

- Sports field
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670
-

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #140	4	2	30	0	36
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.5%	0.0%	0.3%

2018-2020 Response Time

ATOM #140 First on Scene Response Time Baseline: 90th Percentile	10:01
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Land Area

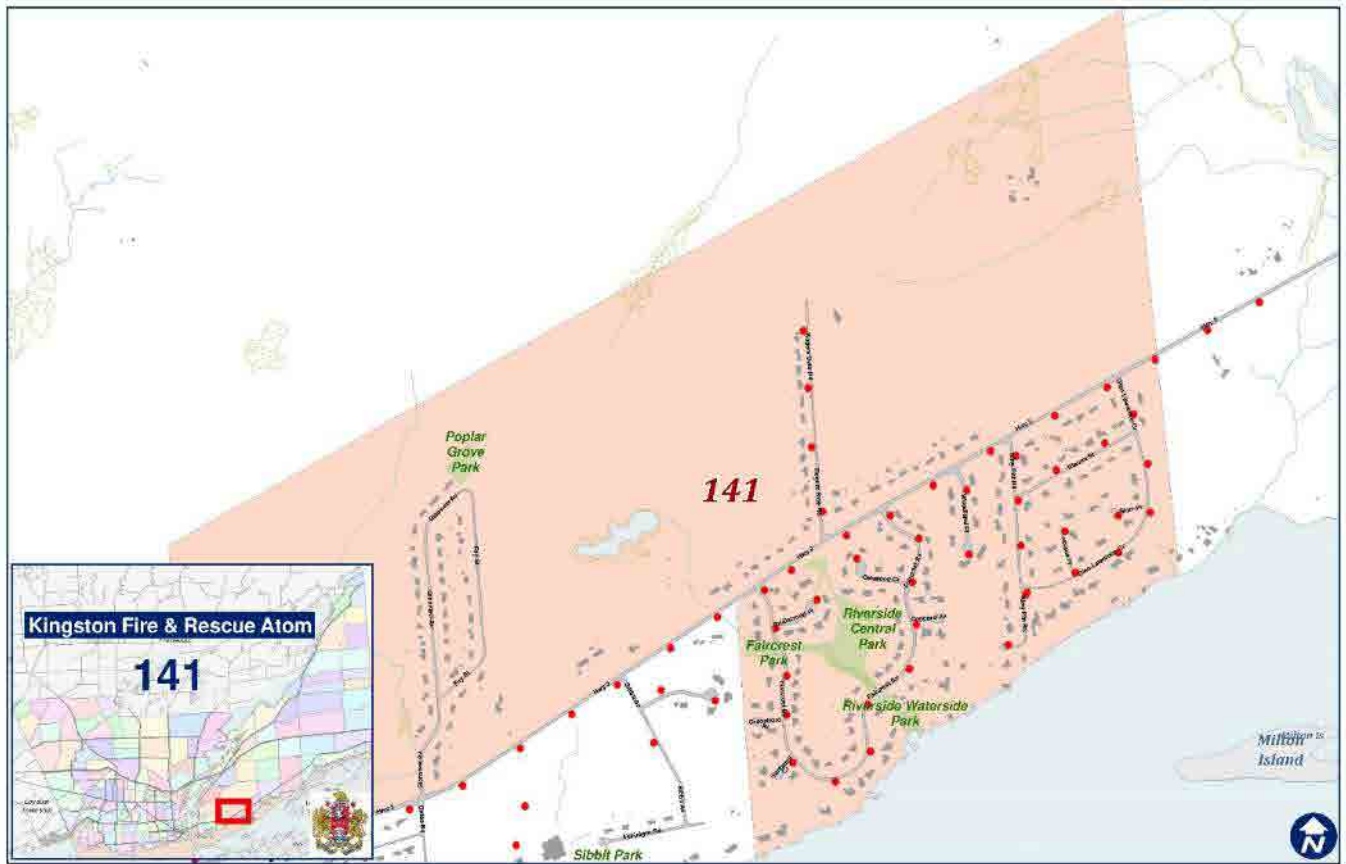
	Square Kilometre
ATOM #140	1.68
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #140	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 141 – Urban- Low Risk



Structural Occupancy Type(s)

Group B Care and Detention Occupancies

- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Hotel/Motel/Lodging

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 222
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$504,302
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #141	8	4	10	2	24
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.4%	0.1%	0.2%	0.1%	0.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #141 First on Scene Response Time Baseline: 90th Percentile	14:45
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Land Area

	Square Kilometre
ATOM #141	2.60
City of Kingston	450.40
ATOM Percentage of Total	0.6%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #141	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 142 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly

Group C Residential

- Rooming/Boarding
- Multi-unit dwelling

Group E Mercantile

- Food/beverage sales

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Utilities – Electrical
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Underground Tunnels

Non-Structural Type(s)

- Sports field
- Waterways

Infrastructure System Type(s)

- Roadway
- Transportation network (Hwy 2)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Power generating source (RMC Reactor)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #142	9	5	111	4	129
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.4%	0.2%	0.2%	0.3%	1%

2018-2020 Response Time

ATOM #142 First on Scene Response Time Baseline: 90th Percentile	09:27
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Land Area

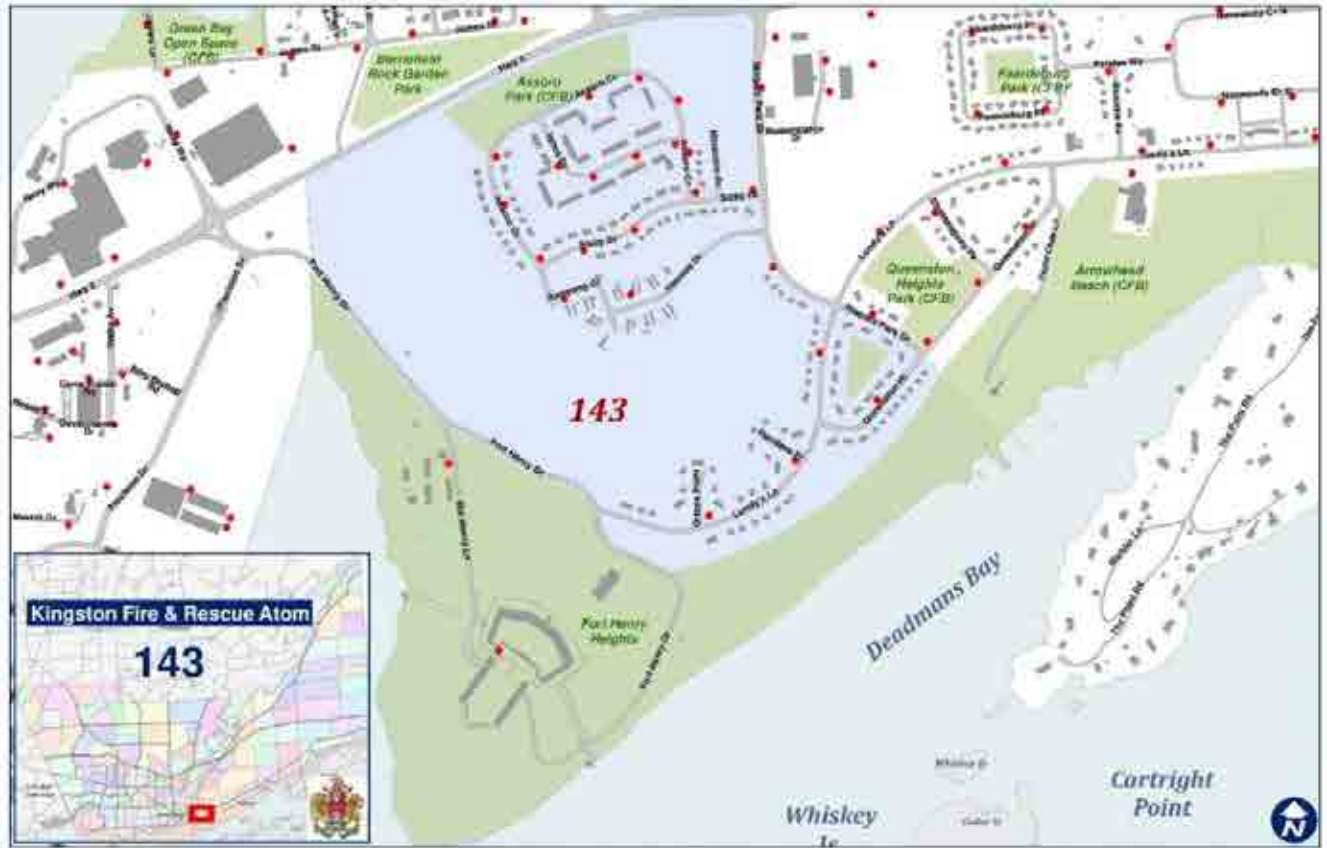
	Square Kilometre
ATOM #142	0.46
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #142	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 143 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling

Group E Mercantile

- Food/beverage sales
- Department store
- Specialty stores

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structures/Properties not classified by the Ontario Building Code

Miscellaneous structure Fort Henry National Historical Site

Non-Structural Type(s)

- Waterways
- Trails
- Marina(multiply water craft)
- Brush/Forest
- Open Pit (Tunnels)

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Municipal Water System
- Electrical distribution 1 (to structures)
- Communications tower
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #143	1	5	33	2	41
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.2%	0.6%	0.1%	0.4%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #143 First on Scene Response Time Baseline: 90th Percentile	12:38
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Land Area

	Square Kilometre
ATOM #143	0.84
City of Kingston	450.40
ATOM Percentage of Total	0.2%

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #143	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 144 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Mine/Well
- Miscellaneous structure
- Classed under National Farm Building Code
- Other Miscellaneous property, structure
- Water tower

Non-Structural Type(s)

- Parkland
- Marina(multiply water craft)
- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- TransCanada Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 20
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$475,150
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #144	2	2	24	1	29
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.5%	0.1%	0.3%

2018-2020 Response Time

ATOM #144 First on Scene Response Time Baseline: 90th Percentile	13:42
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Land Area

	Square Kilometre
ATOM #144	0.76
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #144	\$3,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 145 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group F Industrial

- Storage Textile/cloth/leather products
- Storage/Wood/Furn/Paper/print products
- Storage metal/elect/misc products
- Storage vehicles, parts

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structures/Properties not classified by the Ontario Building Code

- Mine/Well
- Miscellaneous structure
- Classed under National Farm Building Code
- Other Miscellaneous property, structure

Water tower

Non-Structural Type(s)

- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Communications tower
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #145	3	1	41	5	50
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	1%	0.5%	0.5%

2018-2020 Response Time

ATOM #145 First on Scene Response Time Baseline: 90th Percentile	10:51
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Land Area

	Square Kilometre
ATOM #145	0.66
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #145	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 146- Urban – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Utilities – Electrical
- Utilities – Water Treatment
- Utilities – Sewage Treatment
- Other Miscellaneous property, structure
- Water tower

Non-Structural Type(s)

- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation Network (Hwy#2)
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 27
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$309,778
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #146	2	7	2	1	12
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.2%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM #146 First on Scene Response Time Baseline: 90th Percentile	10:45
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #146	0.36
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #146	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 147- Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Non-Structural Type(s)

- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 23
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$751,087
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #147	0	1	0	0	1
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.1%	0.0%	0.0%	0.01%

2018-2020 Response Time

ATOM #147 First on Scene Response Time Baseline: 80th Percentile	10:36
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #147	0.16
City of Kingston	450.40
ATOM Percentage of Total	0.0%

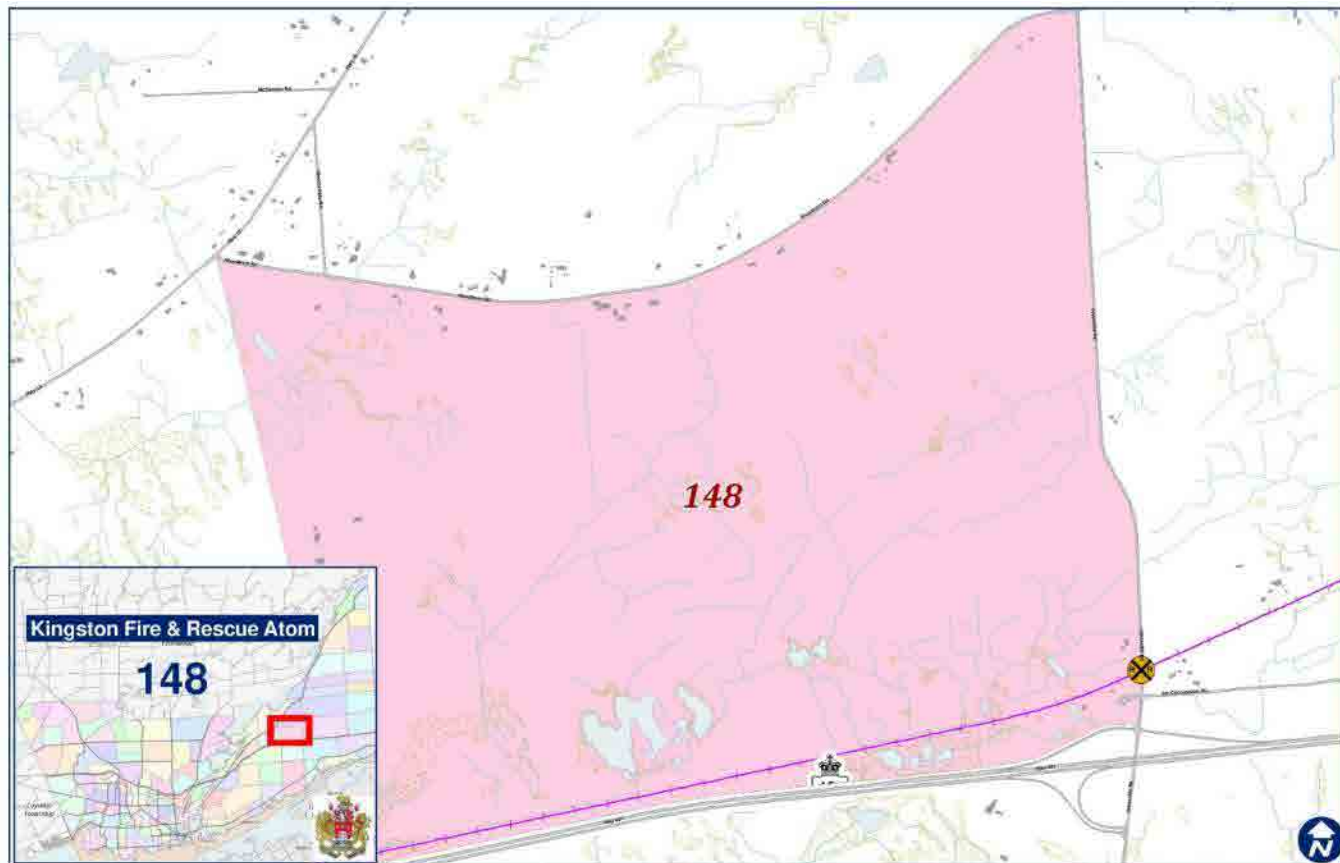
2018-2020 Fire Loss and Injury

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #147	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 148 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Railway
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 5
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$294,400
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #148	1	1	0	1	3
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.0%	0.1%	0.1%

2018-2020 Response Time

ATOM #148 First on Scene Response Time Baseline: 80th Percentile	11:44
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

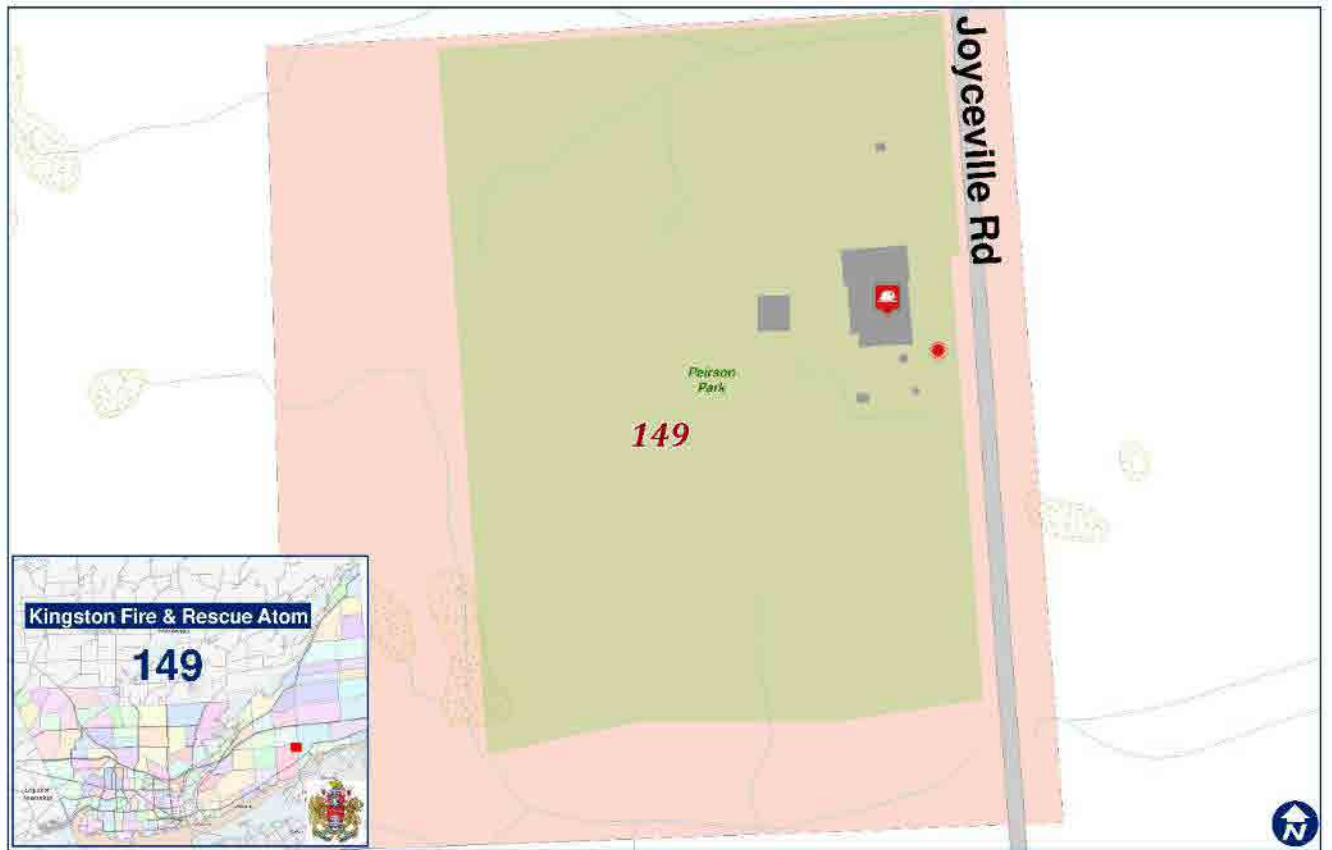
	Square Kilometre
ATOM #148	4.48
City of Kingston	450.40
ATOM Percentage of Total	1.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #148	\$1,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 149 – Rural – Low Risk



Structural Occupancy Type(s)

Group F Industrial

Storage vehicles, parts (Fire Station)

Non-Structural Type(s)

- Sports field
- Parkland
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Communications tower

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 5
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$294,400
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #149	0	0	4	0	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.1%	0.0%	0.01%

2018-2020 Response Time

ATOM #149 First on Scene Response Time Baseline: 80th Percentile	30:41
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #149	0.09
City of Kingston	450.40
ATOM Percentage of Total	0.0%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #149	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 150 – Rural – Low Risk



Structural Occupancy Type(s)

Group F Industrial

- Storage vehicles, parts (fire station)

Non-Structural Type(s)

- Sports field
- Parkland

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Communications tower

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 1
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$205,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #150	0	0	0	0	0
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM #150 First on Scene Response Time Baseline: 80th Percentile	NA
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #150	0.03
City of Kingston	450.40
ATOM Percentage of Total	0.0%

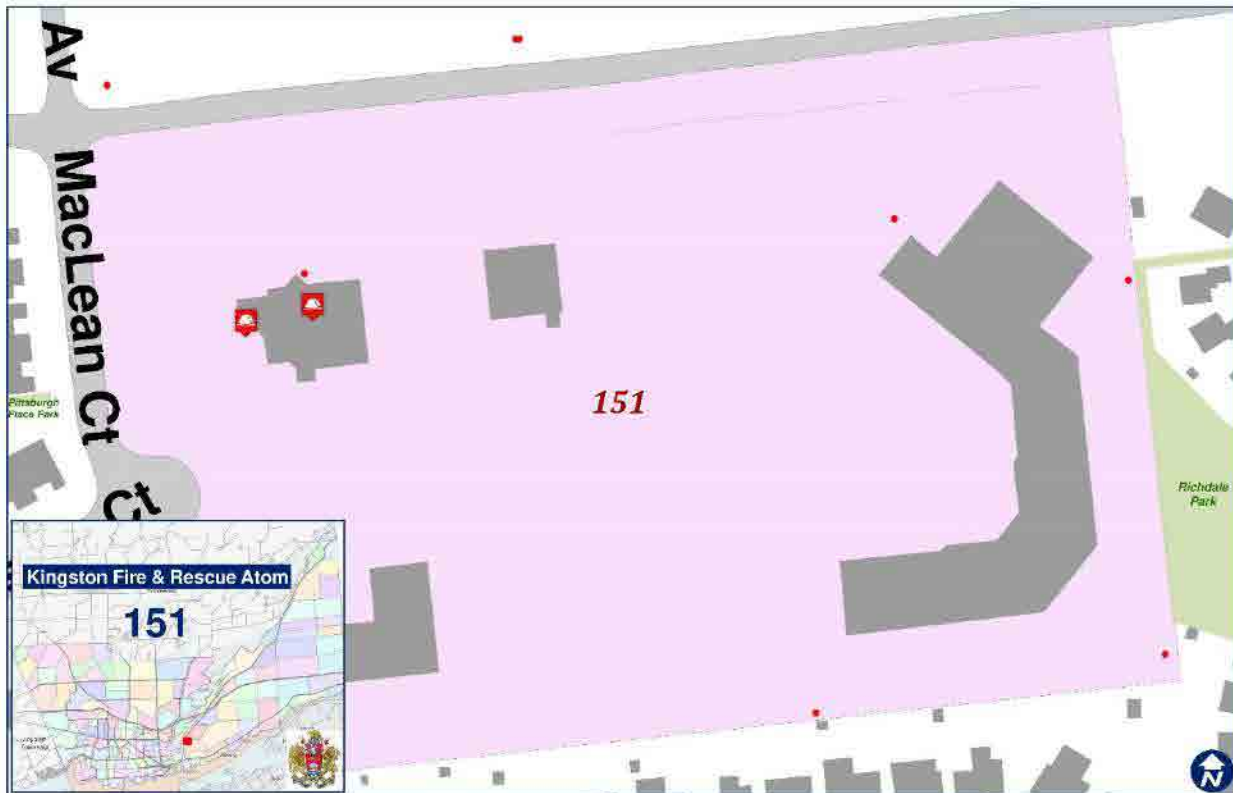
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #150	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 151 – Urban – Low Risk



Structural Occupancy Type(s)

Group B Care and Detention Occupancies

- Group/Retirement Home

Group D Business and Personal Services.

- Other Business/personal services

Group Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Group F Industrial

- Storage vehicles, parts

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 18
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$288,611
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #151	0	1	2	0	3
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.1%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM #151 First on Scene Response Time Baseline: 90th Percentile	5:22
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

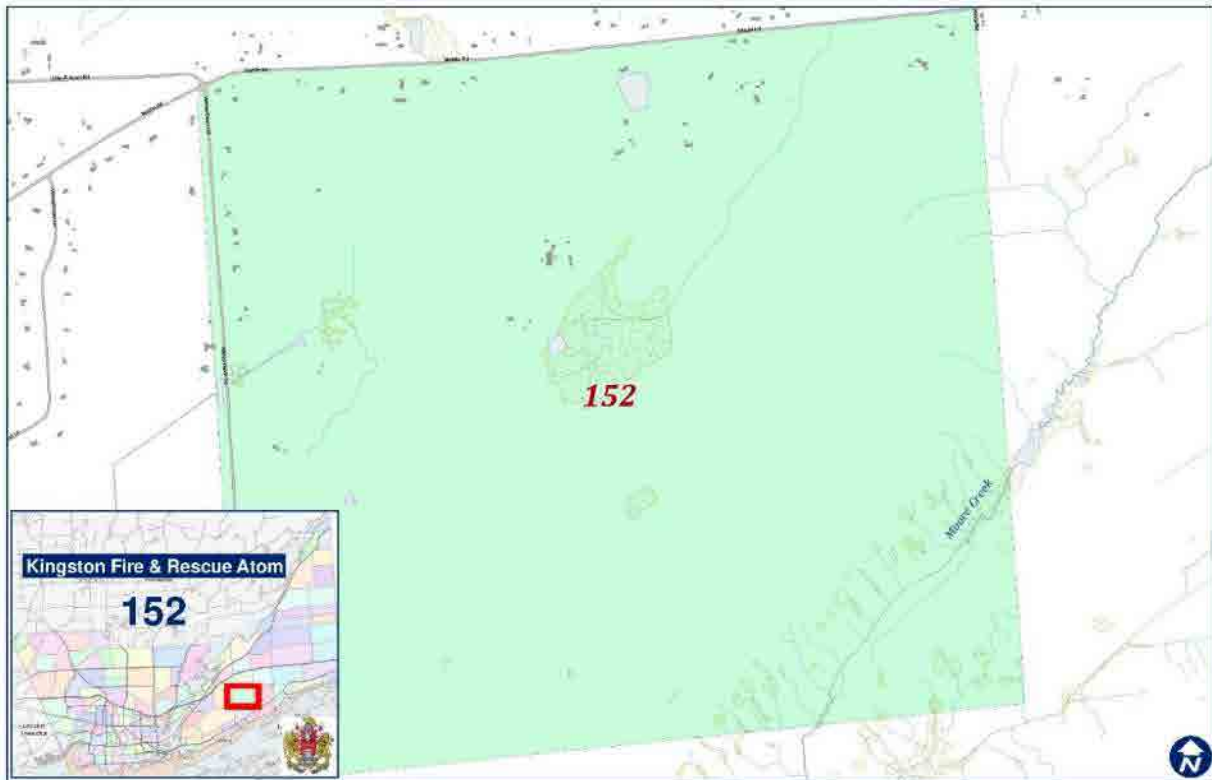
	Square Kilometre
ATOM #151	0.06
City of Kingston	450.40
ATOM Percentage of Total	0.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #151	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 152 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Municipal Water System
- Electrical distribution 1(to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 23
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$364,217
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	N	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #152	0	0	0	3	3
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.2%	0.1%

2018-2020 Response Time

ATOM #152 First on Scene Response Time Baseline: 80th Percentile	10:36
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #152	5.05
City of Kingston	450.40
ATOM Percentage of Total	1.1%

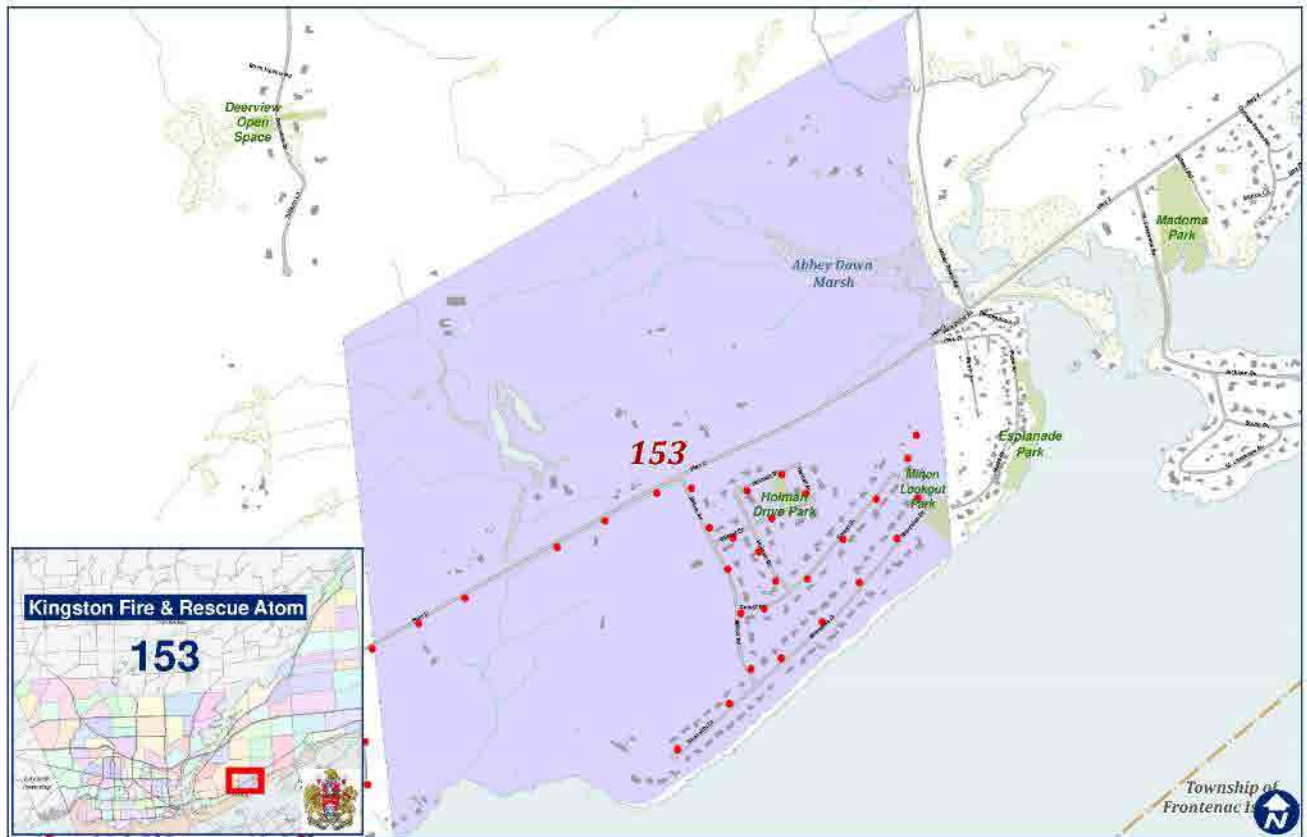
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #152	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 153 – Urban – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Trails
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 110
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$588,027
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #153	3	4	4	1	12
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM #153 First on Scene Response Time Baseline: 90th Percentile	13:47
Kingston Fire & Rescue Urban Volunteer Standard Response Benchmark: 90th Percentile	10:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #153	2.33
City of Kingston	450.40
ATOM Percentage of Total	0.5%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #153	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 154- Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Utilities – Water Treatment
- Utilities – Sewage treatment

Non-Structural Type(s)

- Brush/Forest
- Waterway

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 30
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$691,200
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #154	0	1	3	0	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.1%	0.1%	0.0%	0.1%

2017-2020 Response Time

ATOM #154 First on Scene Response Time Baseline: 80th Percentile	14:05
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

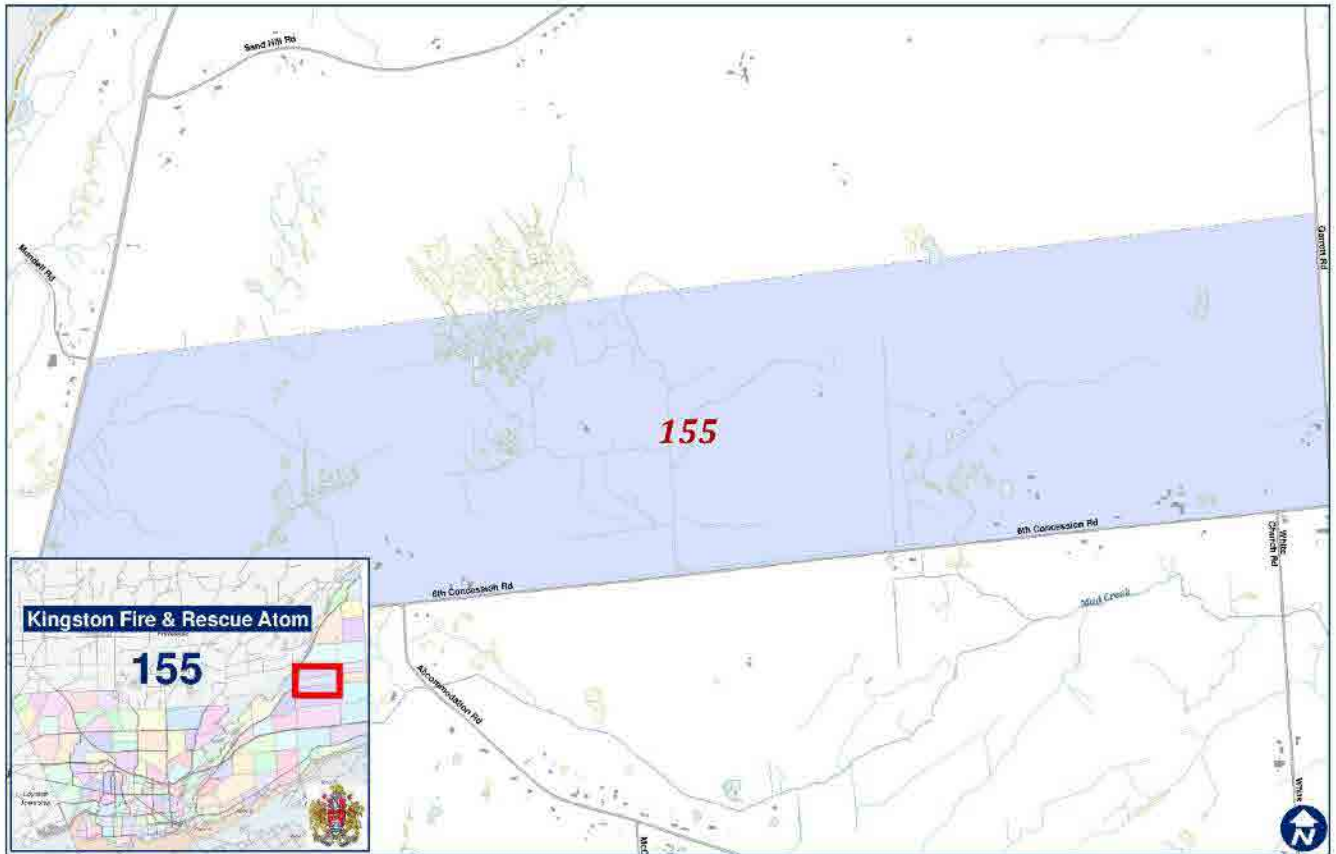
	Square Kilometre
ATOM #154	0.35
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #154	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 155 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 8
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$213,375
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #155	0	0	0	2	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.2%	0.1%

2018-2020 Response Time

ATOM #155 First on Scene Response Time Baseline: 80th Percentile	11:48
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

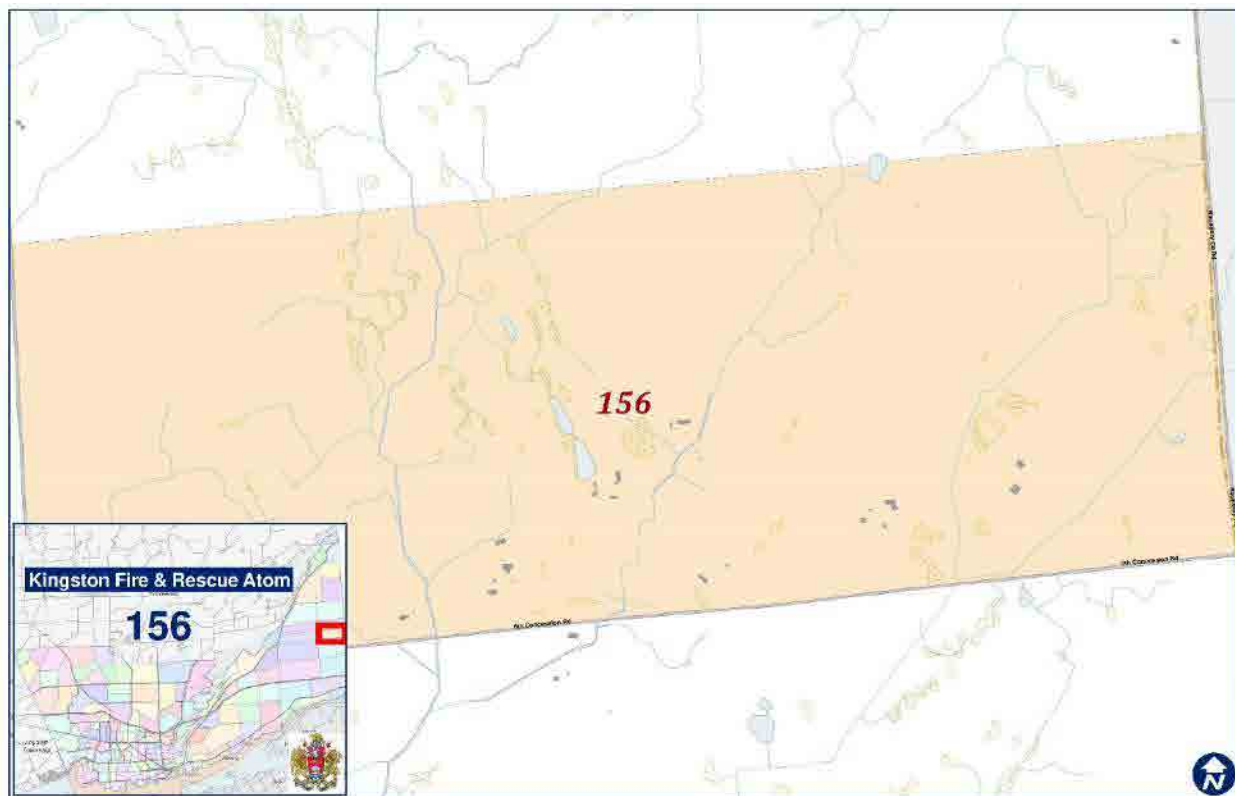
	Square Kilometre
ATOM #155	4.57
City of Kingston	450.40
ATOM Percentage of Total	1.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #155	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 156 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

Classed under National Farm Building Code

Non-Structural Type(s)

Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 5
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$293,200
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #156	1	0	0	0	1
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.0%	0.0%	0.01%

2018-2020 Response Time

ATOM #156 First on Scene Response Time Baseline: 80th Percentile	14:36
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #156	2.95
City of Kingston	450.40
ATOM Percentage of Total	0.7%

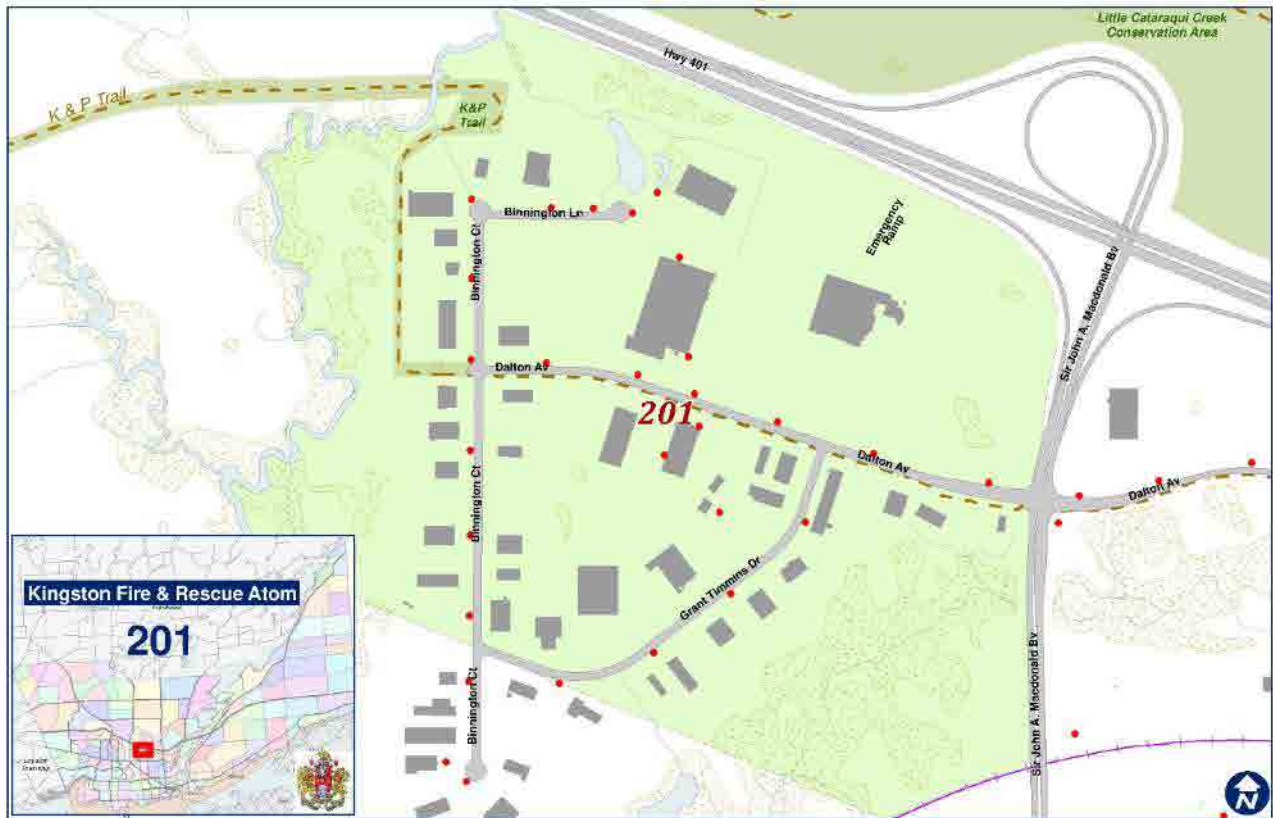
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #156	\$50,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.5%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 201 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Production/ Viewing Performing arts
- Education facility

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

- Mfg/process Agr/Food/Bev/Tobacco products
- Storage Chem/Petrol/Paint/Plastic products
- Storage Wood/Furn/Paper/print products
- Mfg/process Wood/Furn/Paper/print products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial
- Agr/Food/Bev/Tobacco products
- Mfg/process other metal/elect/misc products

Structures/Properties not classified by the Ontario Building Code

Other Miscellaneous Structure

Non-Structural Type(s)

- Sports field
- Trails
- Brush/Forest
- Infrastructure System Type(s) Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Communications tower
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #201	3	1	9	0	13
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.2%	0.0%	0.1%

2018-2020 Response Time

ATOM #201 First on Scene Response Time Baseline: 90th Percentile	08:35
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

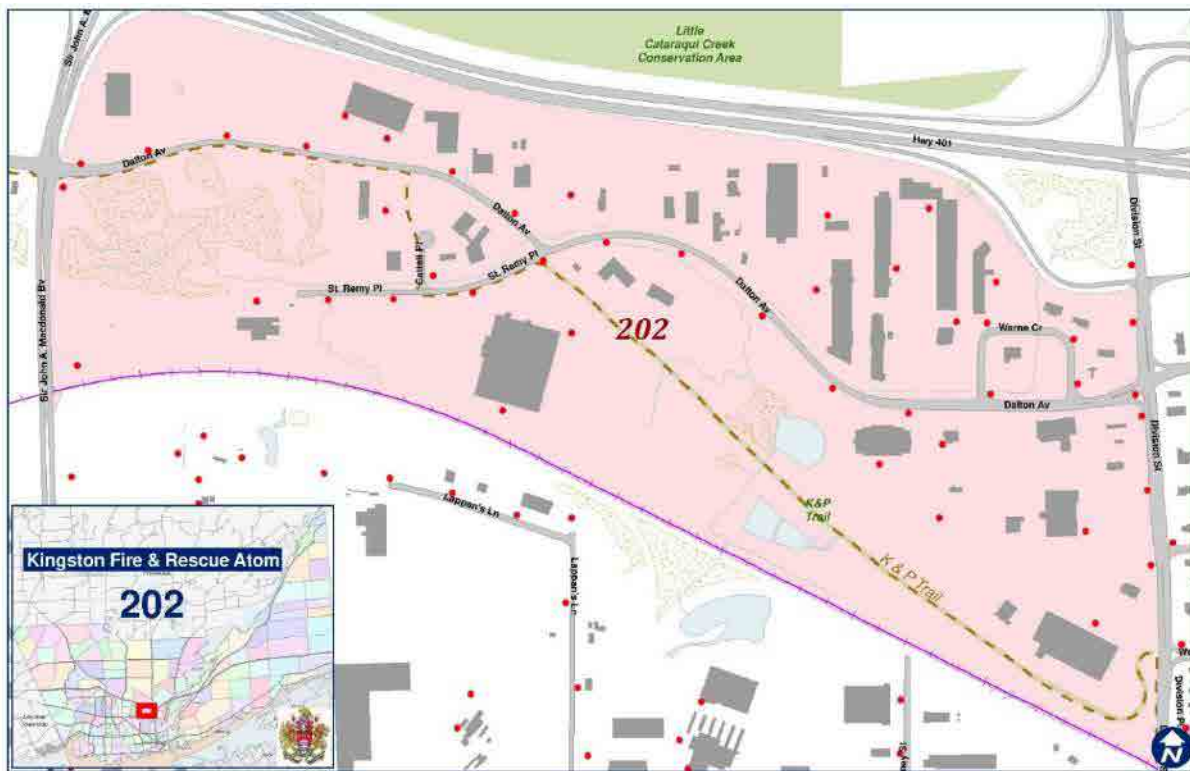
	Square Kilometre
ATOM #201	0.75
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #201	\$500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 202 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet

Group F Industrial

- Other Industrial

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #202	32	10	34	14	90
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	0.5%	1%	1%	1%

2018-2020 Response Time

ATOM #202 First on Scene Response Time Baseline: 90th Percentile	08:42
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #202	1.01
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #202	\$20,500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 203 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling
- Hotel/Motel/Lodging
- Other residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Storage Chem/Petrol/Paint/Plastic products

Non-Structural Type(s)

- Sports field
- Parkland
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 640
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$216,211
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #203	42	45	60	3	150
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	0.2%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #203 First on Scene Response Time Baseline: 90th Percentile	08:48	
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50	

Land Area

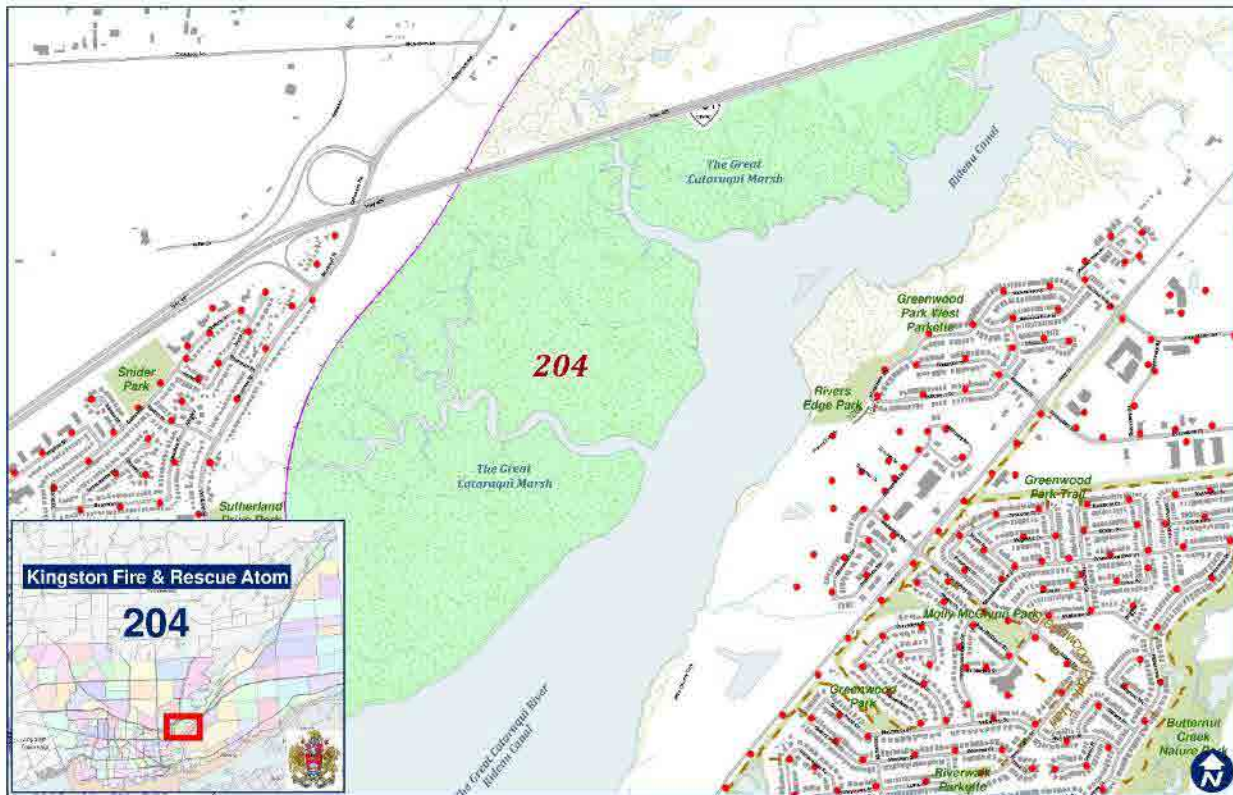
	Square Kilometre	
ATOM #203	1.07	
City of Kingston	450.40	
ATOM Percentage of Total	0.2%	

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #203	\$59,250	1	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.5%	6%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 204 – Urban – Low Risk



Structural Occupancy Type(s)

NA

Non-Structural Type(s)

- Conservation area
- Brush/Forest

Infrastructure System Type(s)

- Railway
- Waterway

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #204	0	0	0	0	0
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM #204 First on Scene Response Time Baseline: 90th Percentile	NA
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

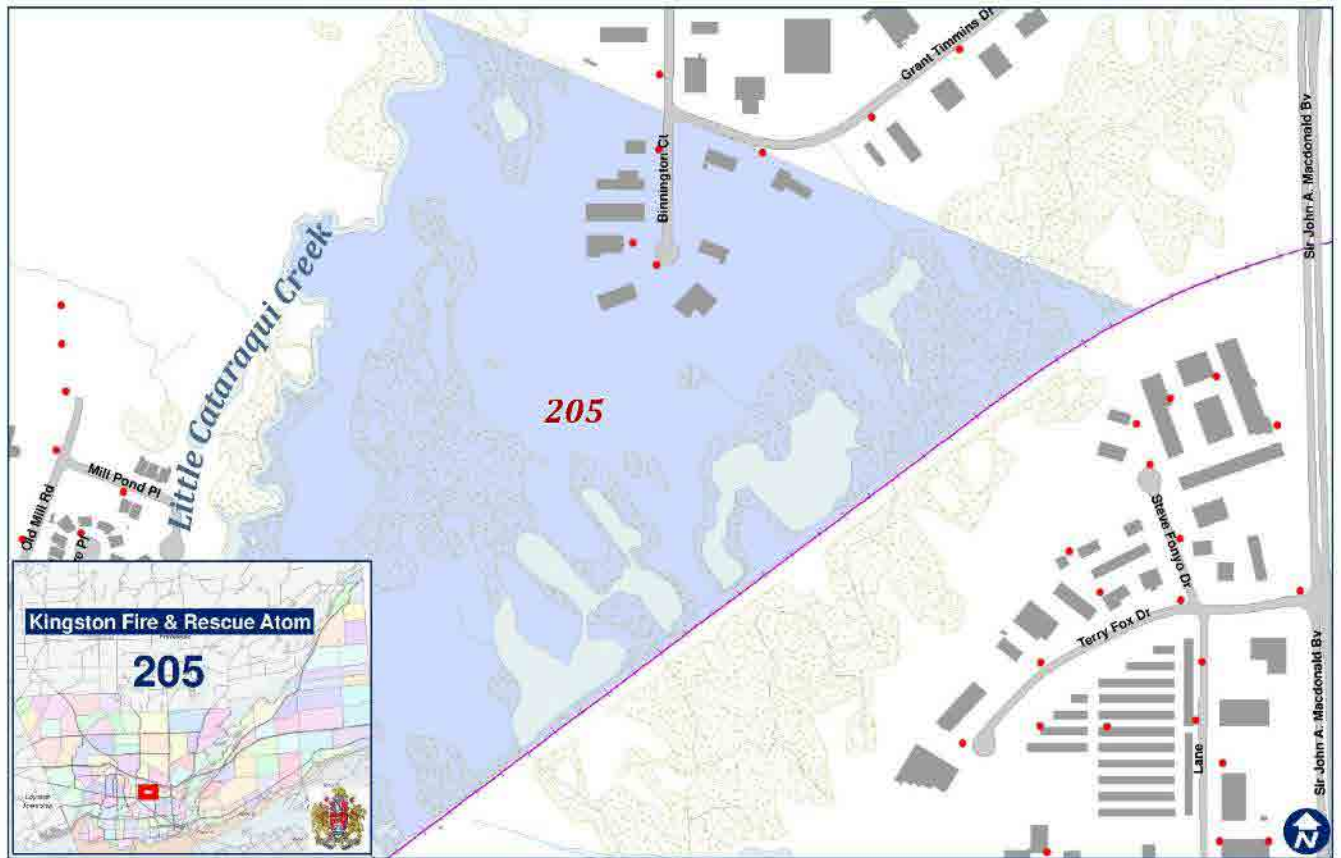
	Square Kilometre
ATOM #204	1.98
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #204	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 205 – Urban - Low Risk



Structural Occupancy Type(s)

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Department store/catalogue/mail outlet

Group F Industrial

- Other Industrial

Non-Structural Type(s)

- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Municipal Water System
- Private Water System
- Railway
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #205	1	0	1	0	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM #205 First on Scene Response Time Baseline: 90th Percentile	08:52
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

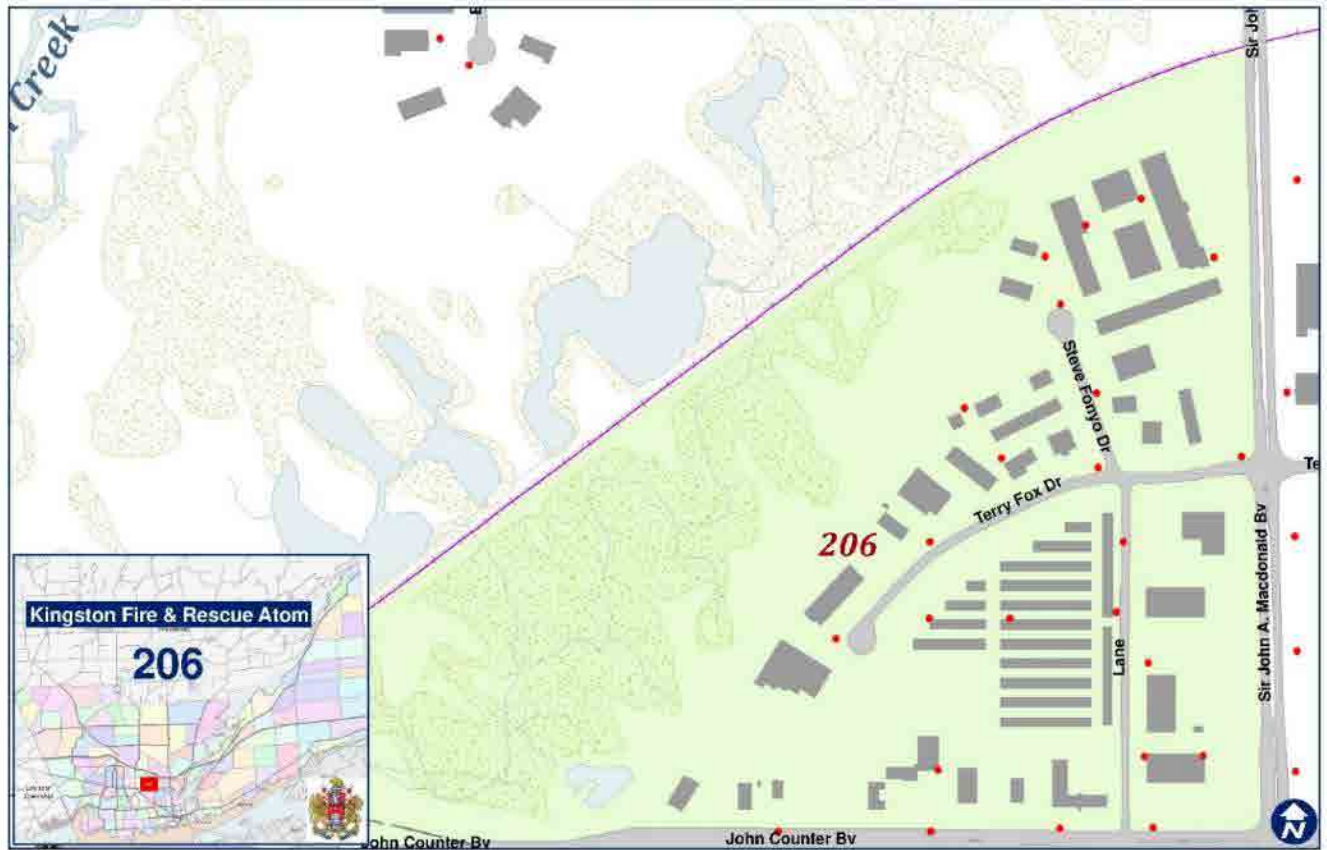
	Square Kilometre
ATOM #205	0.49
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #205	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 206 – Urban – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Specialty stores
- Other mercantile

Group F Industrial

- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Other Industrial

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #206	4	1	8	2	15
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.5%	0.2%	0.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #206 First on Scene Response Time Baseline: 90th Percentile	11:11
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

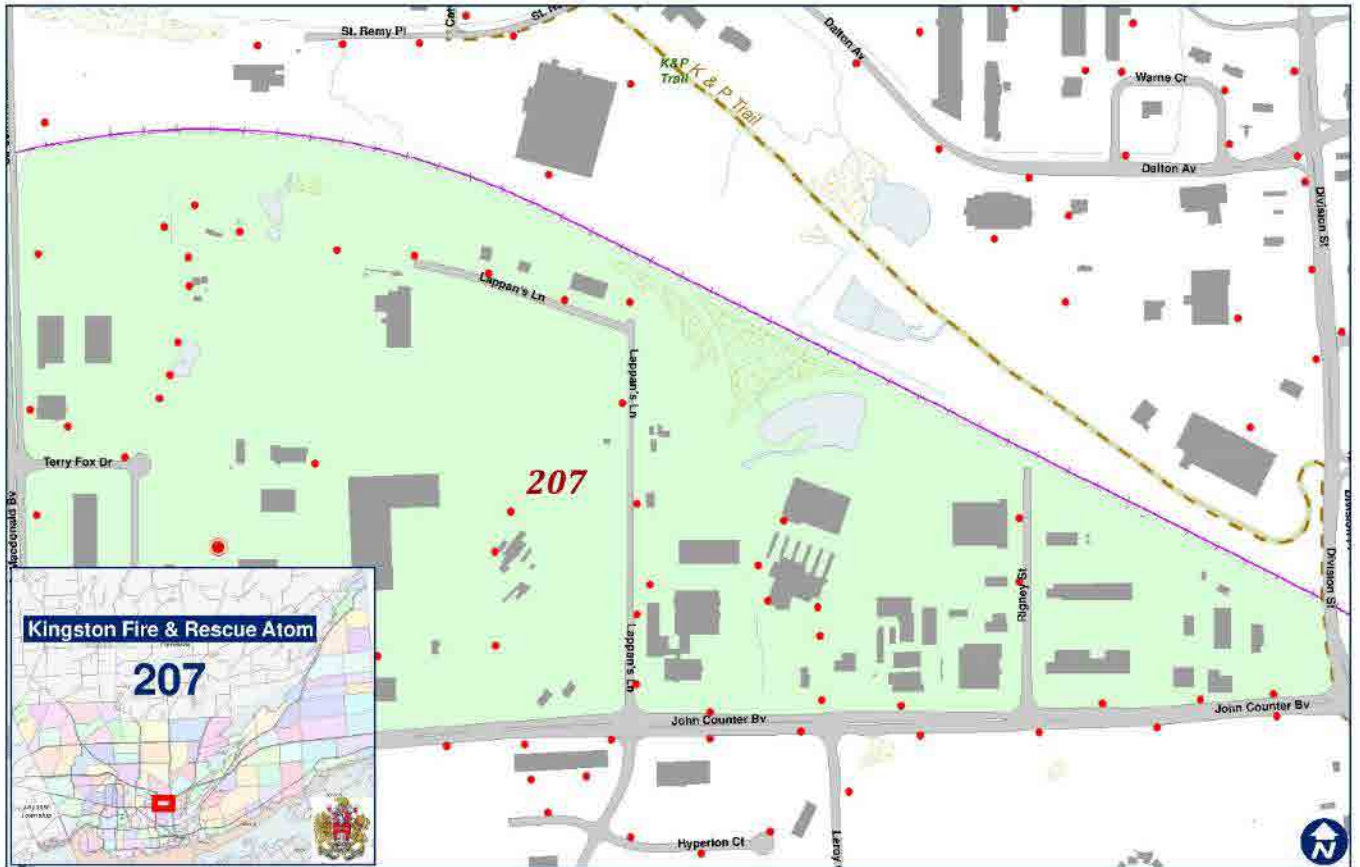
	Square Kilometre
ATOM #206	0.47
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #206	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 207 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Participating/Viewing open air facilities
- Other assembly

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Roadway
- Public Transit
- Railway
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #207	10	2	23	1	36
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.1%	0.4%	0.1%	0.3%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #207 First on Scene Response Time Baseline: 90th Percentile	07:16
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #207	0.91
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #207	\$1,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 208 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service
- Storage Chem/Petrol/Paint/Plastic products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 287
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$216,770
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #208	85	138	106	37	366
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	3%	4%	1%	2%	2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 RESPONSE TIME

ATOM #208 First on Scene Response Time Baseline: 90th Percentile	07:48
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #208	0.80
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #208	\$495,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	4%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 209 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Trails

Infrastructure System Type(s)

- Roadway
- Public Transit
- Railway
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 418
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$202,644
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #209	57	85	87	13	242
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	2%	2%	1%	1%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #209 First on Scene Response Time Baseline: 90th Percentile	08:19
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #209	0.73
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #209	\$46,850	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.5%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 210 – Urban - Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group B Care and Detention Occupancies

- Other Care and Detention

Group C Residential

- Detached/semi/attached residential
- Rooming/Boarding
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Storage Chem/Petrol/Paint/Plastic products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Conservation area
- Trails
- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 13
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$238,308
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #210	6	18	26	7	57
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.6%	0.5%	0.5%	0.5%

2018-2020 Response Time

ATOM #210 First on Scene Response Time Baseline: 90th Percentile	07:03
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #210	0.47
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #210	\$5,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #211 Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 824
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$301,689
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
YES/NO	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #211	27	76	102	17	222
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	2%	1%	1%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #211 First on Scene Response Time Baseline: 90th Percentile	08:28
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

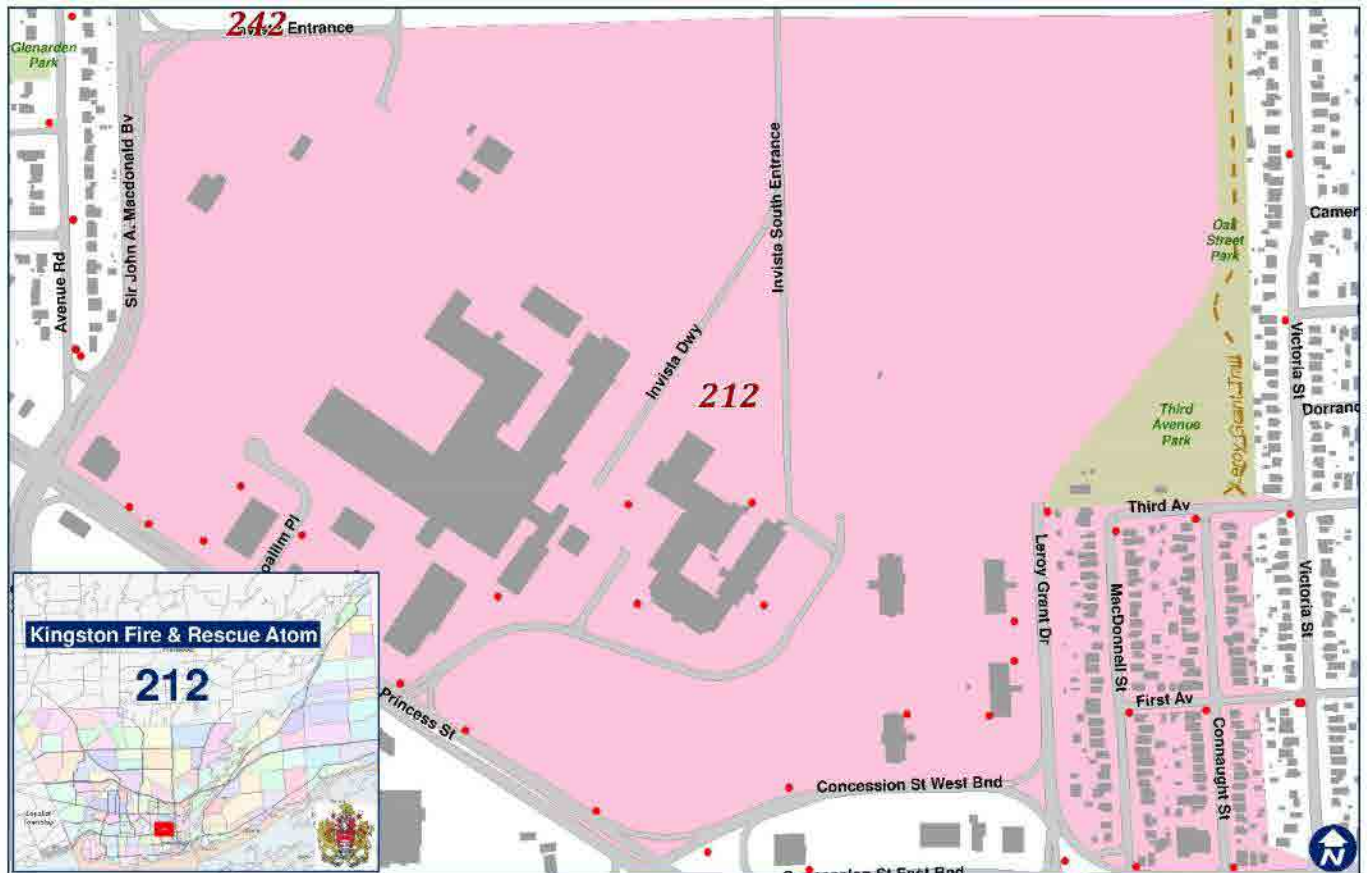
	Square Kilometre
ATOM #211	1.20
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #211	\$111,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 212 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Mfg/process vehicles parts
- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Parkland
- Trails

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 85
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$215,929
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #212	35	50	60	15	160
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	1%	1%

2018-2020 Response Time

ATOM #212 First on Scene Response Time Baseline: 90th Percentile	07:28
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #212	0.78
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #212	\$363,100	2	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 213 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Other assembly

Group B Care and Detention Occupancies

- Transitional shelter
- Other Care and Detention

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling
- Other residential

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Agr/Food/Bev/Tobac products
- Storage Chem/Petrol/Paint/Plastic products
- Storage Textile/cloth/leather products
- Storage Wood/Furn/Paper/print products
- Mfg/process vehicles parts
- Mfg/process other metal/elect/misc products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Other Miscellaneous property, structure

Non-Structural Type(s)

- Trails
- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 70
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$191,900
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #213	80	80	95	24	279
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	3%	2%	1%	1%	2%

2018-2020 Response Time

ATOM #213 First on Scene Response Time Baseline: 90th Percentile	07:04
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #213	0.88
City of Kingston	450.40
ATOM Percentage of Total	0.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #213	\$118,750	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 214- Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group B Care and Detention Occupancies

- Persons under supervisory care
- Care facility
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling
- Hotel/Motel/Lodging

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Group F Industrial

- Vehicle sales/service

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Conservation area
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Railway
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 311
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$292,447
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #214	16	39	46	6	107
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	0.5%	1%

2018-2020 Response Time

ATOM #214 First on Scene Response Time Baseline: 90th Percentile	08:15
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #214	1.41
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #102	\$11,500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 215 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Museum/Art gallery/Auditorium
- Education facility

Group B Care and Detention Occupancies

- Care facility
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Storage Textile/cloth/leather products
- Storage Wood/Furn/Paper/print products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Other Miscellaneous property, structure

Non-Structural Type(s)

- Sports field

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System

Single Family Residential Property

- ATOM Property Count: 175
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$254,170
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #215	37	49	52	14	152
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	1%	1%

2018-2020 Response Time

ATOM #215 First on Scene Response Time Baseline: 90th Percentile	07:36
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #215	0.63
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #215	\$9,800	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 216 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Production/ Viewing Performing arts
- Recreation/sports facility
- Education facility
- Arenas/Swimming pools
- Participating/Viewing open air facilities
- Other assembly

Group B Care and Detention Occupancies

- Transitional shelter

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal service

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Products
- Storage vehicles, parts

Non-Structural Type(s)

- Sports field
- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 903
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$219,092
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #216	52	100	79	19	250
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	2%	3%	1%	1%	2%

2018-2020 Response Time

ATOM #216 First on Scene Response Time Baseline: 90th Percentile	06:39
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #216	1.26
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #216	\$539,500	2	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	4%	13%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 217 -Urban – High Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group B Care and Detention Occupancies

- Other Care and Detention
- Persons under restraint

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores
- Other mercantile

Group F Industrial

- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Conservation area
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 172
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$178,099
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #217	150	166	120	26	462
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	6%	3%	2%	1%	3%

2018-2020 Response Time

ATOM #217 First on Scene Response Time Baseline: 90th Percentile	06:06
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #217	1.59
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #217	\$973,500	1	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	8%	6%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 218 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Arenas/Swimming pools
- Other assembly

Group B Care and Detention Occupancies

- Persons under supervisory care
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Agr/Food/Bev/Tobac products
- Storage Wood/Furn/Paper/print products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Conservation area
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 377
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$388,660
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #218	40	74	128	16	258
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	2%	2%	1%	2%

2018-2020 Response Time

ATOM #218 First on Scene Response Time Baseline: 90th Percentile	08:20
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #218	1.32
City of Kingston	450.40
ATOM Percentage of Total	0.3%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #218	\$62,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 219 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly

Group B Care and Detention Occupancies

- Care facility

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Specialty stores
- Other mercantile

Structures/Properties not classified by the Ontario Building Code

- Other Miscellaneous property, structure

Non-Structural Type(s)

- Sports field
- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Communications tower

Single Family Residential Property

- ATOM Property Count: 565
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$305,372
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #219	63	86	127	21	297
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	2%	2%	2%	1%	2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #219 First on Scene Response Time Baseline: 90th Percentile	06:52
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #219	0.96
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #219	\$88,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 220 – Urban – High Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Other assembly
- Arenas/Swimming pools

Group B Care and Detention Occupancies

- Persons under restraint

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling
- Hotel/Motel/Lodging

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Group F Industrial

- Water Tower
- Hydro Distribution Building

Non-Structural Type(s)

- Sports field
- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 739
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$316,219
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #220	82	155	247	70	554
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	3%	4%	4%	5%	4%

2018-2020 Response Time

ATOM #220 First on Scene Response Time Baseline: 90th Percentile	06:14
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

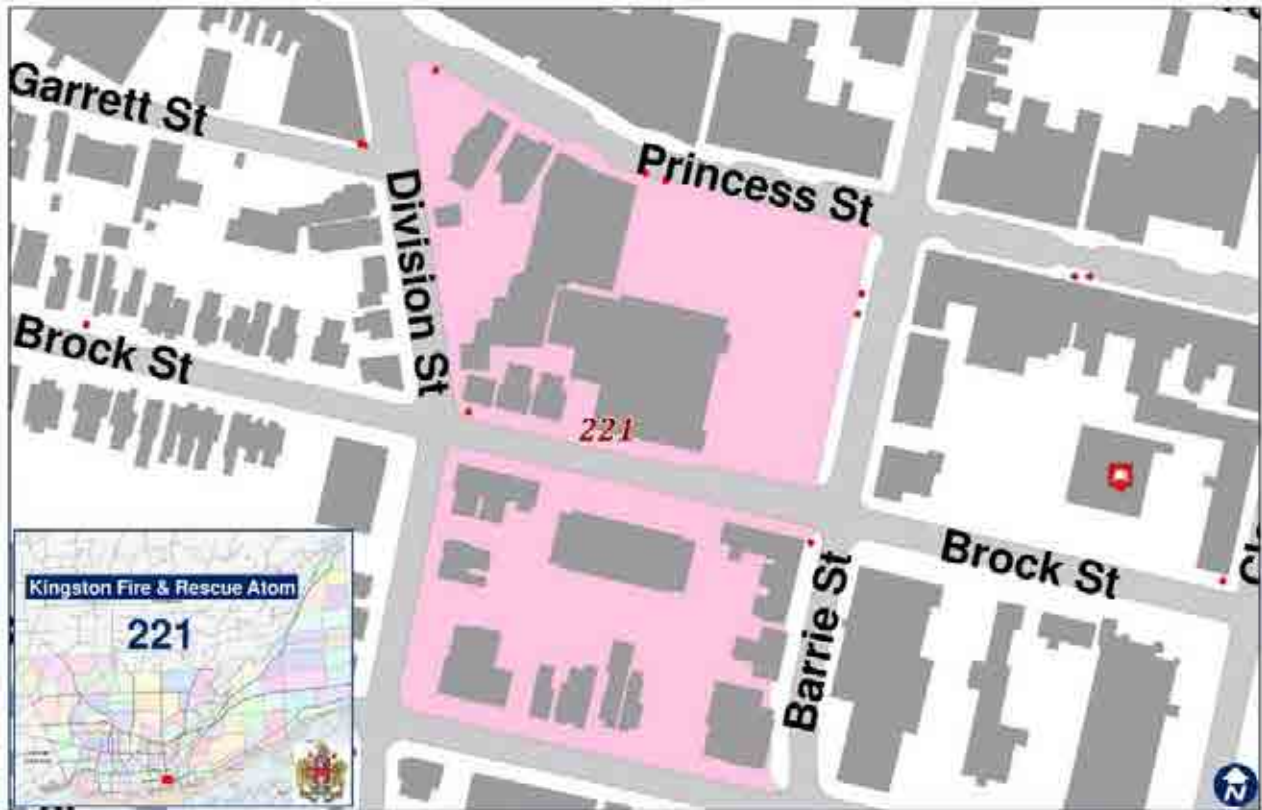
	Square Kilometre
ATOM #220	1.28
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #220	\$1,097,100	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	9%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 221 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential.
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store
- Specialty stores

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Storage vehicles

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 5
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$445,200
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #221	6	61	28	8	103
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	1%	0.5%	0.5%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #221 First on Scene Response Time Baseline: 90th Percentile	05:26
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #221	0.32
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #221	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 222 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Other mercantile

Group F Industrial

- Vehicle sales/service

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Parkland
- Sportsfield

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 129
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$254,442
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #222	22	67	64	7	160
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	2%	1%	0.5%	1%

2018-2020 Response Time

ATOM #222 First on Scene Response Time Baseline: 90th Percentile	06:32
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #222	0.24
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #222	\$184,000	3	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	2%	20%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 223 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Other assembly

Group B Care and Detention Occupancies

- Persons under supervisory care
- Care facility
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products Mfg/process Agr/Food/Bev/Tobac products
- Storage Chem/Petrol/Paint/Plastic products
- Storage Wood/Furn/Paper/print products
- Mfg/process Wood/Furn/Paper/print products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Conservation area
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count:47
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$239,468
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #223	27	36	47	9	119
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	1%	1%

2018-2020 Response Time

ATOM #223 First on Scene Response Time Baseline: 90th Percentile	07:14
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #223	0.40
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #223	\$359,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #224 Urban – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 193
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$262,622
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #224	29	32	62	3	126
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	0.2%	1%

2018-2020 Response Time

ATOM #224 First on Scene Response Time Baseline: 90th Percentile	06:23
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #224	0.27
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #224	\$397,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #225 Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Arenas/Swimming pools
- Other assembly

Group B Care and Detention Occupancies

- Persons under supervisory care
- Care facility

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Multi-unit dwelling
- Hotel/Motel/Lodging
- Other residential

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal service

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Non-Structural Type(s)

- Parkland

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Communications tower

Single Family Residential Property

- ATOM Property Count: 301
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$274,169
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #225	20	79	139	20	276
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	2%	2%	1%	2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2017-2019 Response Time

ATOM #225 First on Scene Response Time Baseline: 90th Percentile	06:07
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #225	0.37
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #225	\$25,250	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #226 - Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Production/ Viewing Performing arts
- Museum/Art gallery/Auditorium
- Recreation/sports facility
- Education facility
- Arenas/Swimming pools
- Other assembly

Group B Care and Detention Occupancies

- Care facility
- Transitional shelter

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling
- Hotel/Motel/Lodging
- Other residential

Group D Business and Personal Services

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores
- Other mercantile

Group F Industrial

- Utilities
- Mfg/process other metal/elect/misc products

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Marina(multiply water craft)

Infrastructure System Type(s)

- Roadway
- Public Transit
- Bridge
- Ferry
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 98
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$320,449
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	N

2018-2020 Incident Activity Type	Fire	Medical	Other	Rescue	Total
ATOM #226	31	102	147	22	305
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	3%	2%	1%	2%

2017-2019 Response Time

ATOM #226 First on Scene Response Time Baseline: 90th Percentile	06:40
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #226	0.50
City of Kingston	450.40
ATOM Percentage of Total	0.1%

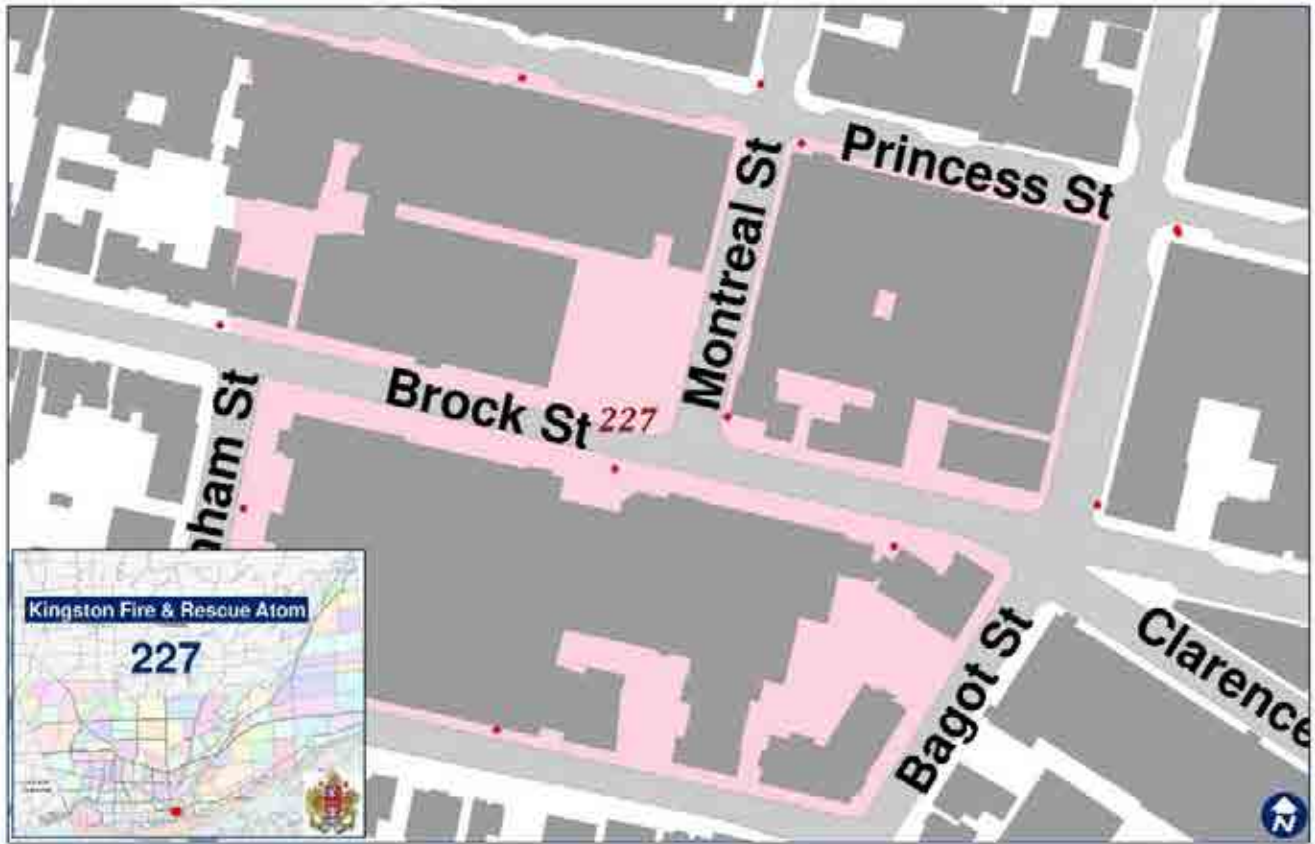
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #226	\$48,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.5%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #227 - Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Production/ Viewing Performing arts

Group B Care and Detention Occupancies

- Care facility – Hospital

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Multi-unit dwelling

Group D Business and Personal Services

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Specialty stores

Group F Industrial

- Storage vehicles, parts

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #227	11	19	59	7	96
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.5%	1%	0.5%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #227 First on Scene Response Time Baseline: 90th Percentile	05:19
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

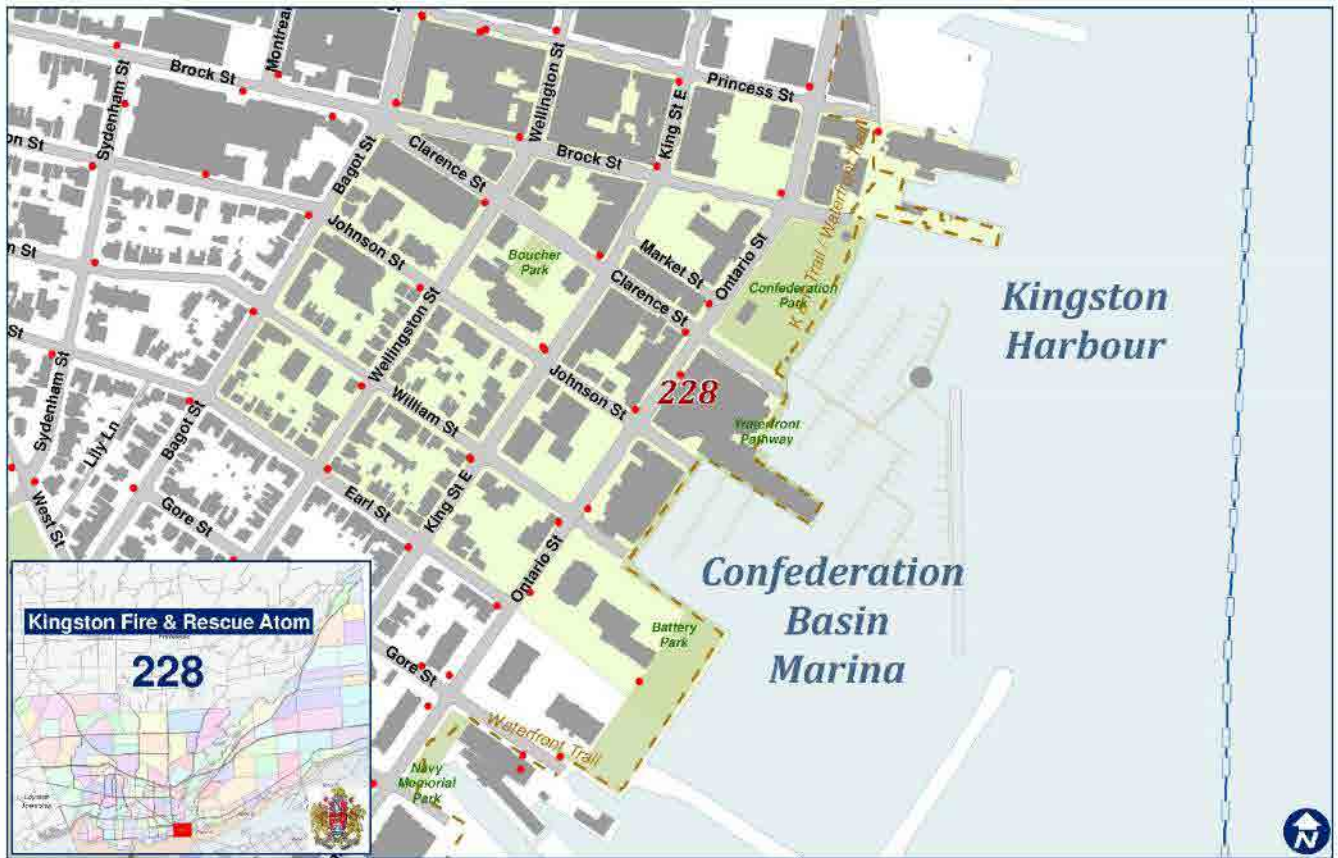
	Square Kilometre
ATOM #227	0.05
City of Kingston	450.40
ATOM Percentage of Total	0.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #227	\$1,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #228 - Urban – High Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Production/ Viewing Performing arts
- Other assembly

Group B Care and Detention Occupancies

- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Other mercantile

Non-Structural Type(s)

- Parkland
- Waterways
- Marina(multiply water craft)

Infrastructure System Type(s)

- Roadway
- Public Transit
- Bridge
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 44
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$556,045
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #228	40	120	230	34	424
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	3%	4%	2%	3%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM #228 First on Scene Response Time Baseline: 90th Percentile	06:10
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #228	0.38
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #228	\$24,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 229 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Arenas/Swimming pools
- Participating/Viewing open air facilities

Group B Care and Detention Occupancies

- Persons under restraint
- Persons under supervisory care
- Care facility

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling
- Hotel/Motel/Lodging

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Storage Textile/cloth/leather products
- Storage Wood/Furn/Paper/print products
- Mfg/process textiles/cloth/leather products
- Mfg/process Wood/Furn/Paper/print products
- Mfg/process other metal/elect/misc products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Other Miscellaneous property, structure

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Power generating source (solar farm, RMC Reactor, Large Generators)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 164
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$400,402
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #229	22	31	49	11	113
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	1%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	07:10
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #229	1.19
City of Kingston	450.40
ATOM Percentage of Total	0.3%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #229	\$129,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 230 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Production/ Viewing Performing arts
- Recreation/sports facility
- Other assembly

Group B Care and Detention Occupancies

- Persons under restraint
- Persons under supervisory care
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores

Group F Industrial

- Utilities

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Trails

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 525
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$310,480
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #230	28	39	100	17	184
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	1%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	07:31
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #230	0.75
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #230	\$1,200	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 231 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Participating/Viewing open air facilities
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling
- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Specialty stores

Structures/Properties not classified by the Ontario Building Code

- Water tower

Non-Structural Type(s)

- Sports field
- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 500
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$562,730
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #231	24	27	96	3	150
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	0.2%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	07:24
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #231	0.92
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #231	\$59,500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.5%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 232- Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 345
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$461,270
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #232	85	131	223	32	471
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	3%	4%	3%	2%	3%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	06:13
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #232	0.70
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #232	\$694,000	2	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	6%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 233-Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility (Queen's University and Public School)
- Other assembly (Churches 3, Bar)

Group B Care and Detention Occupancies

- Other Care and Detention (Animals/Queen's)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services
- Court House
- Public Health Laboratory

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Storage vehicles

Non-Structural Type(s)

- Sports field
- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 113
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$616,903
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #233	18	21	83	8	130
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	0.5%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	06:10
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #233	0.23
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #233	\$33,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.5%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 234- Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Production/ Viewing Performing arts
- Museum/Art gallery/Auditorium
- Education facility
- Other assembly

Group B Care and Detention Occupancies

- Care facility
- Other Care and Detention

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling
- Hotel/Motel/Lodging
- Other residential

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Group F Industrial

- Utilities – Water Treatment

Structures/Properties not classified by the Ontario Building Code

- Other Miscellaneous property, structure
- Water tower

Non-Structural Type(s)

- Waterways
- Trails
- Marina(multiply water craft)
- Parkland

Infrastructure System Type(s)

- Waterways
- Trails
- Marina(multiply water craft)
- Parkland

Single Family Residential Property

- ATOM Property Count: 302
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$618,344
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #234	12	9	133	12	166
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.3%	2%	1%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	06:50
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #234	0.82
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #234	\$34,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 235 – Urban – High Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Production/ Viewing Performing arts
- Museum/Art gallery/Auditorium
- Recreation/sports facility
- Education facility
- Participating/Viewing open air facilities
- Other assembly

Group B Care and Detention Occupancies

- Other Care and Detention

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

- Rooming/Boarding
- Multi-unit dwelling
- Other residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Utilities – Steam Plant
- Utilities – Water Treatment
- Storage Wood/Furn/Paper/print products
- Mfg/process other metal/elect/misc products
- Storage vehicles

Non-Structural Type(s)

- Sports field
- Waterways
- Trails
- Aircrafts (helipad)

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 68
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$627,529
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	Y

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #235	55	57	445	23	580
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	2%	1%	7%	1%	4%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	05:43
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #235	0.62
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #235	\$14,500	1	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.02%	0.6%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 236 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Museum/Art gallery/Auditorium

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Multi-unit dwelling
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Parkland
- Waterways
- Marina(multiply water craft)

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 97
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$627,608
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #236	14	34	56	8	112
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.6%	1%	1%	0.6%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2017-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	06:53
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #236	0.36
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #236	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM 237 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling
- Seasonal dwelling/Mobile home
- Hotel/Motel/Lodging
- Other residential

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Non-Structural Type(s)

- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 291
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$253,120
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #237	28	51	56	9	144
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	0.6%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	06:47
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

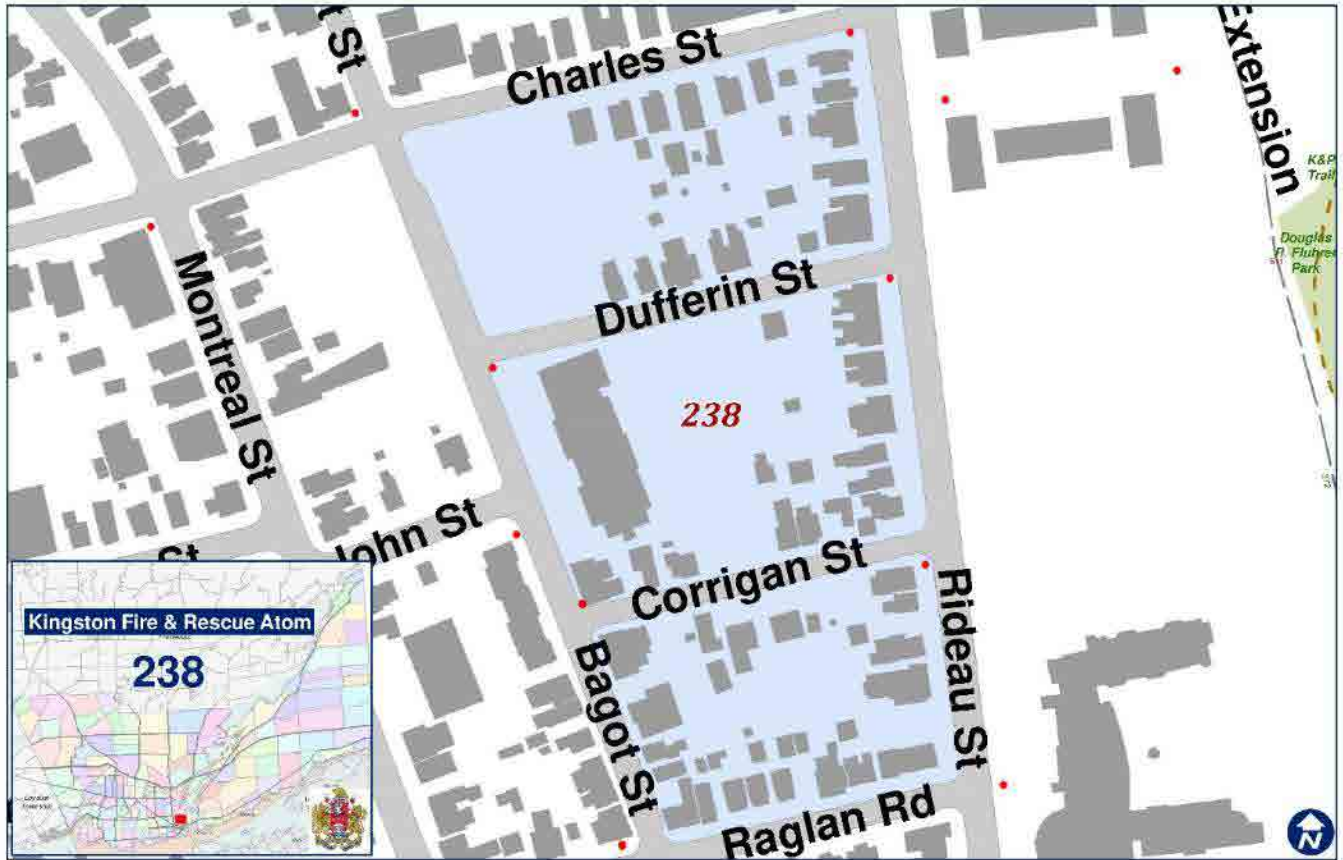
	Square Kilometre
ATOM #237	0.23
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #237	\$124,600	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #238 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility

Group C Residential

- Detached/semi/attached residential
- Rooming/Boarding
- Multi-unit dwelling
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Mine/Well
- Miscellaneous structure
- Classed under National Farm Building Code
- Other Miscellaneous property, structure
- Water tower

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 35
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$267,229
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #238	1	12	4	1	18
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.01%	0.4%	0.01%	0.01%	0.01%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	06:17
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

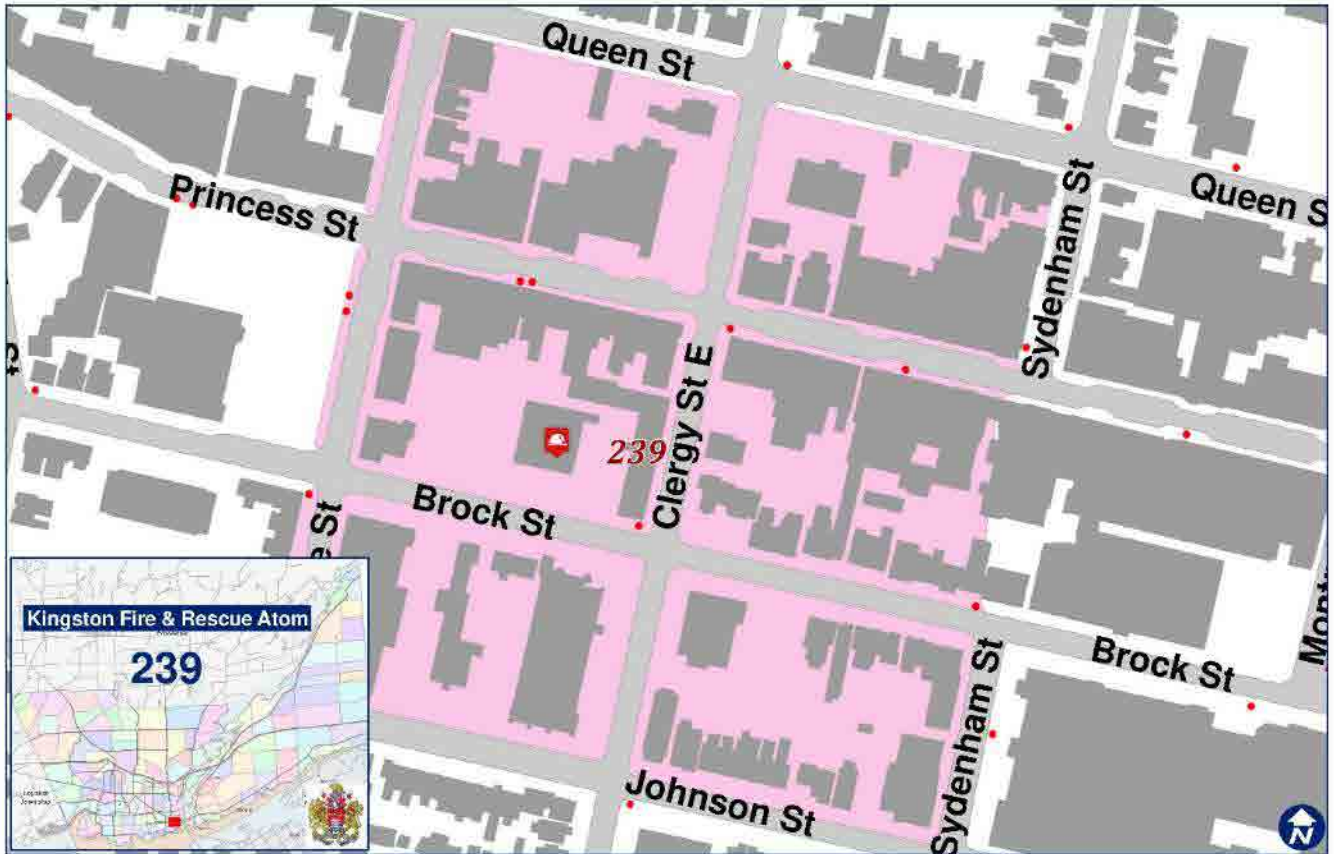
	Square Kilometre
ATOM #238	0.04
City of Kingston	450.40
ATOM Percentage of Total	0.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #238	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #239 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly

Group C Residential

- Other residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 7
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$637,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #239	21	48	62	8	139
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	0.5%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	05:12
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

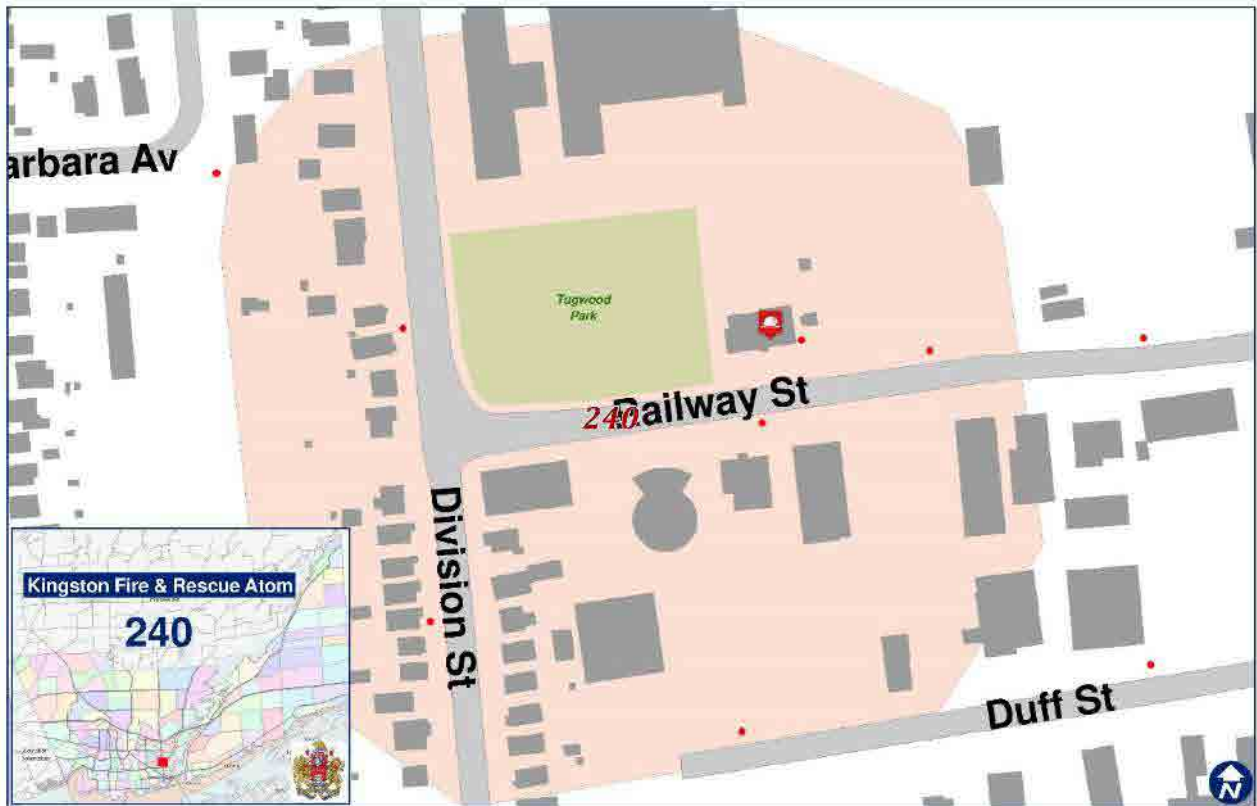
	Square Kilometre
ATOM #239	0.09
City of Kingston	450.40
ATOM Percentage of Total	0.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #239	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #240 – Urban- Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Mfg/process other metal/elect/misc products
- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

Other Miscellaneous property, structure

Non-Structural Type(s)

- Parkland

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 20
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$218,700
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #240	2	8	43	2	55
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.3%	1%	0.2%	0.5%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	18:39
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

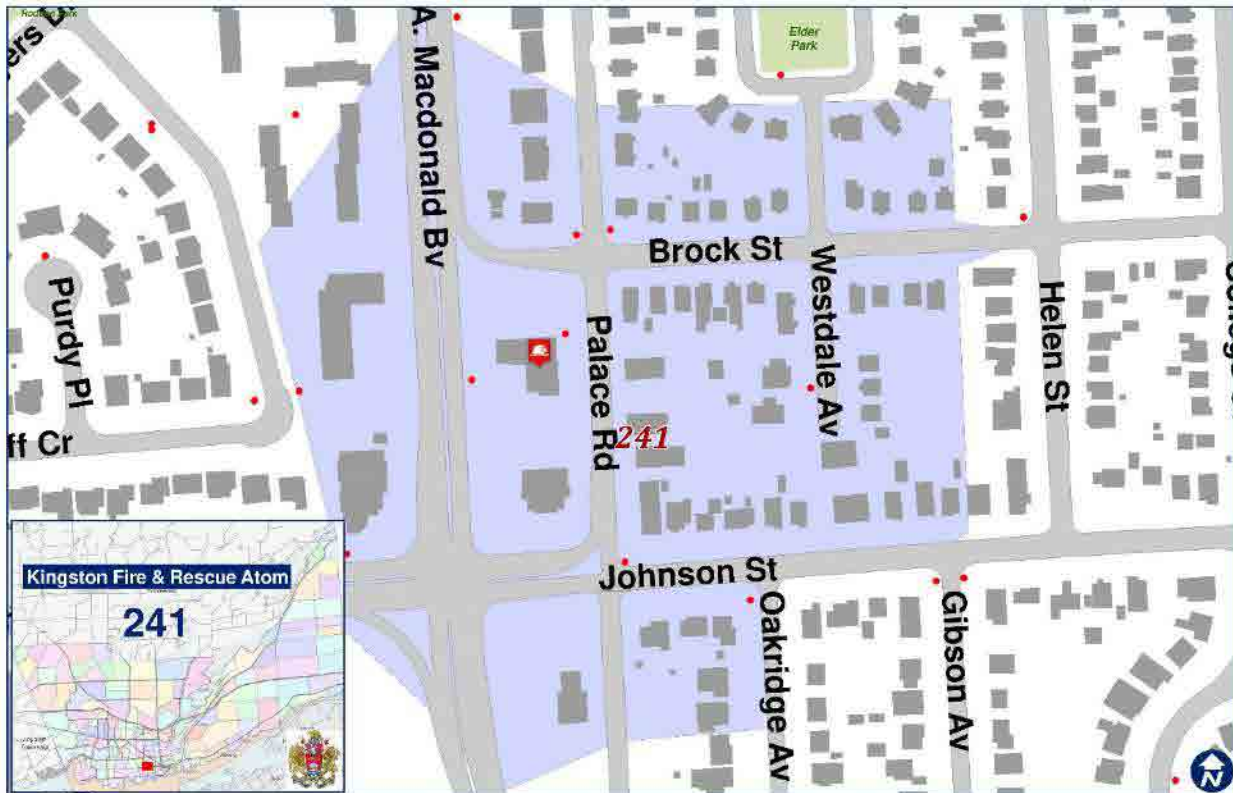
	Square Kilometre
ATOM #240	0.08
City of Kingston	450.40
ATOM Percentage of Total	0.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #240	\$20,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #241 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group F Industrial

- Utilities – Electrical
- Other Industrial

Non-Structural Type(s)

NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 56
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$305,589
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #241	1	4	47	6	58
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	1%	0.5%	0.5%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	12:35
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #241	0.08
City of Kingston	450.40
ATOM Percentage of Total	0.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #241	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #242 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group B Care and Detention Occupancies

- Persons under restraint
- Persons under supervisory care
- Care facility
- Transitional shelter
- Group/Retirement Home
- Other Care and Detention

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services

- Other Business/personal service

Group E Mercantile

- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

Other Industrial

Non-Structural Type(s)

- Parkland
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 220
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$227,850
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #242	45	41	50	19	155
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	2%	1%	1%	1.5%	1.5%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	07:23
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

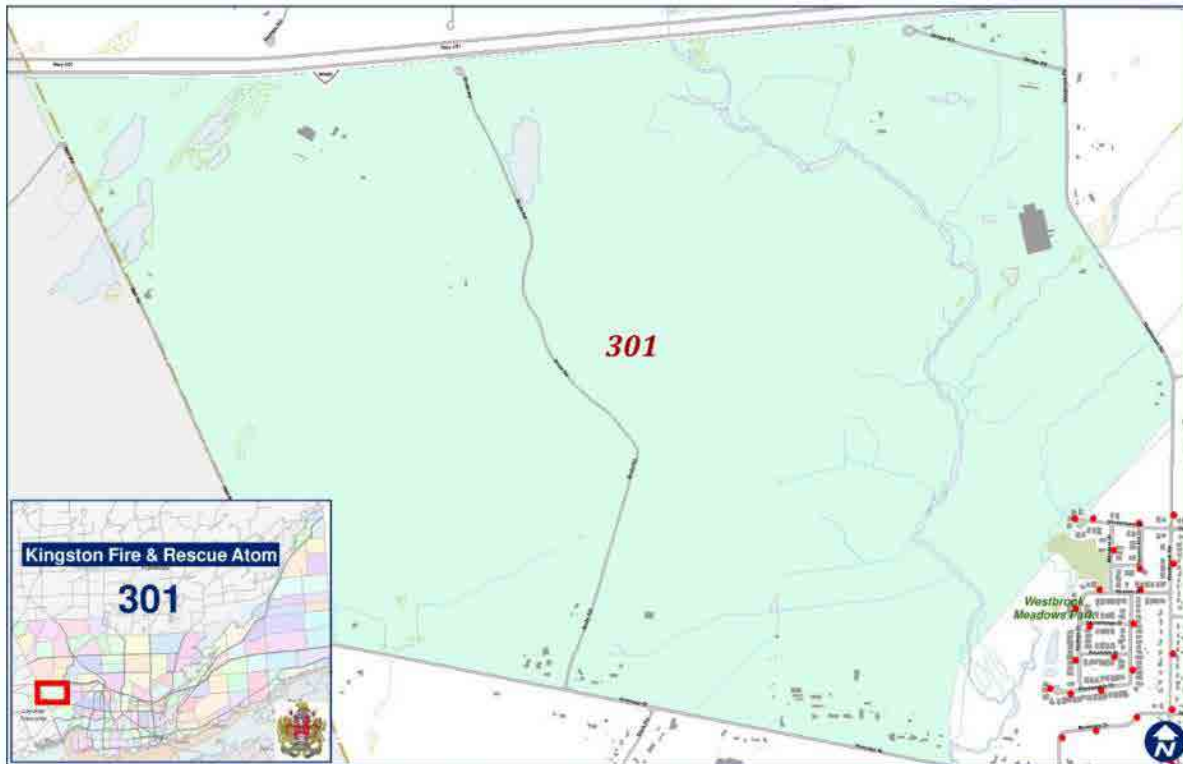
	Square Kilometre
ATOM #242	1.59
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #242	\$209,000	2	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	2%	13%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #301 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Restaurants

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group E Mercantile

- Landscaping

Group F Industrial

- Storage vehicles, parts
- Service Station

Structures/Properties not classified by the Ontario Building Code

Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 14
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$297,643
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #301	2	1	1	0	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	11:54
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

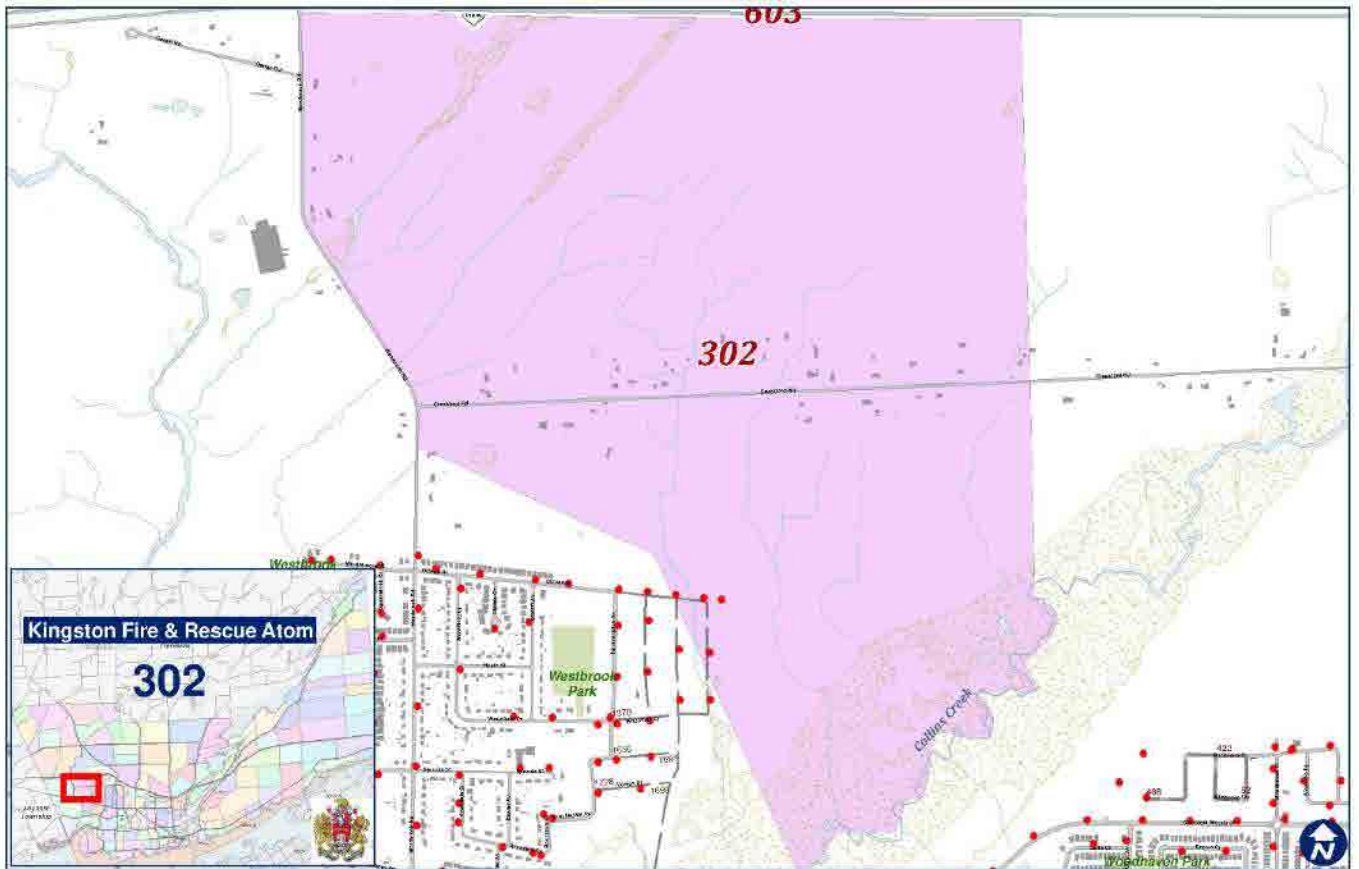
	Square Kilometre
ATOM #301	5.23
City of Kingston	450.40
ATOM Percentage of Total	1.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #301	\$300,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #302 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Vehicle sales/service

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- TransCanada Pipeline
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage
- Municipal Water System

Single Family Residential Property

- ATOM Property Count: 16
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$289,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #302	3	0	4	4	11
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.1%	0.3%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	9:05
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

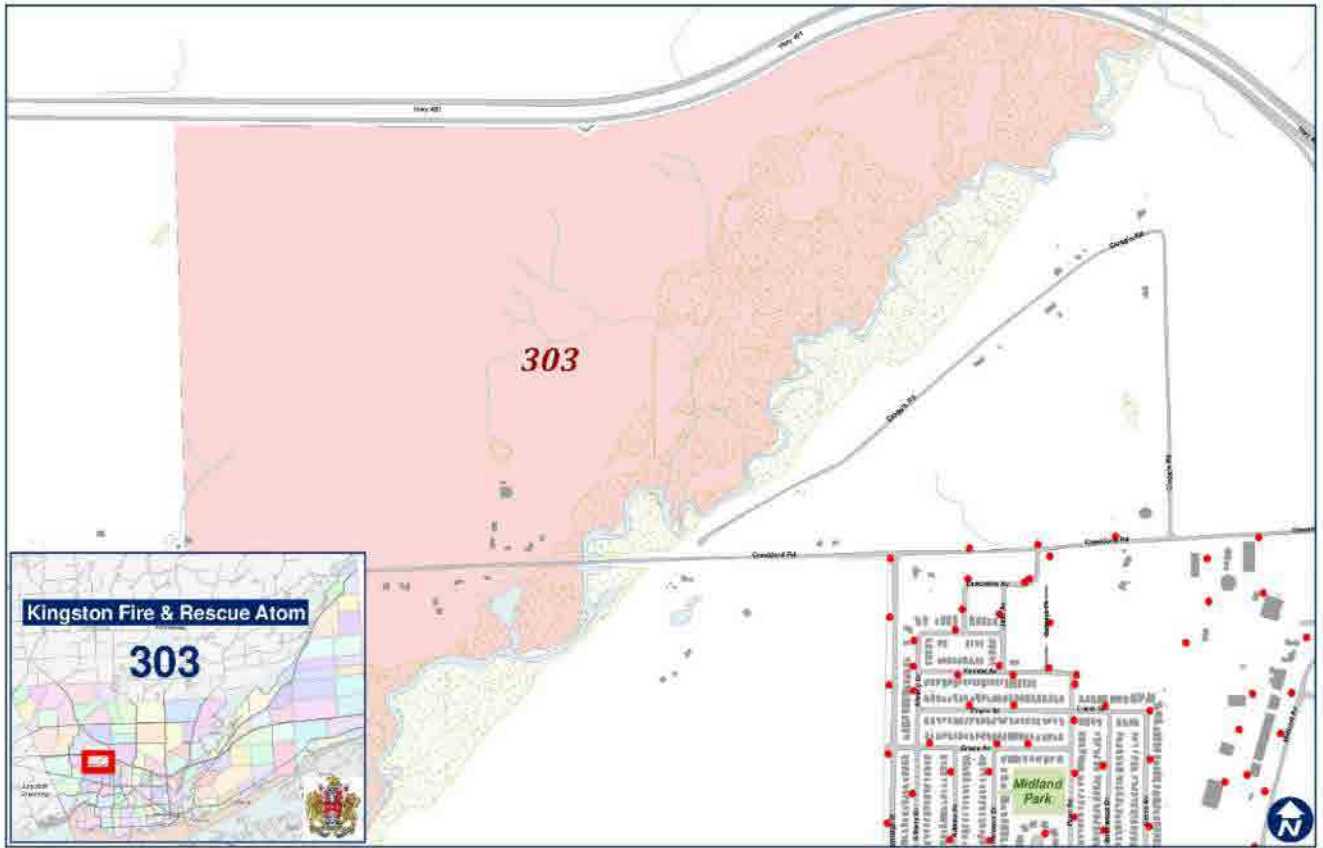
	Square Kilometre
ATOM #302	3.20
City of Kingston	450.40
ATOM Percentage of Total	0.7%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #302	\$5,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #303 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Non-Structural Type(s)

- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 3
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$323,667
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #303	0	1	0	1	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.01%	0.0%	0.01%	0.01%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	06:32
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #303	1.87
City of Kingston	450.40
ATOM Percentage of Total	0.4%

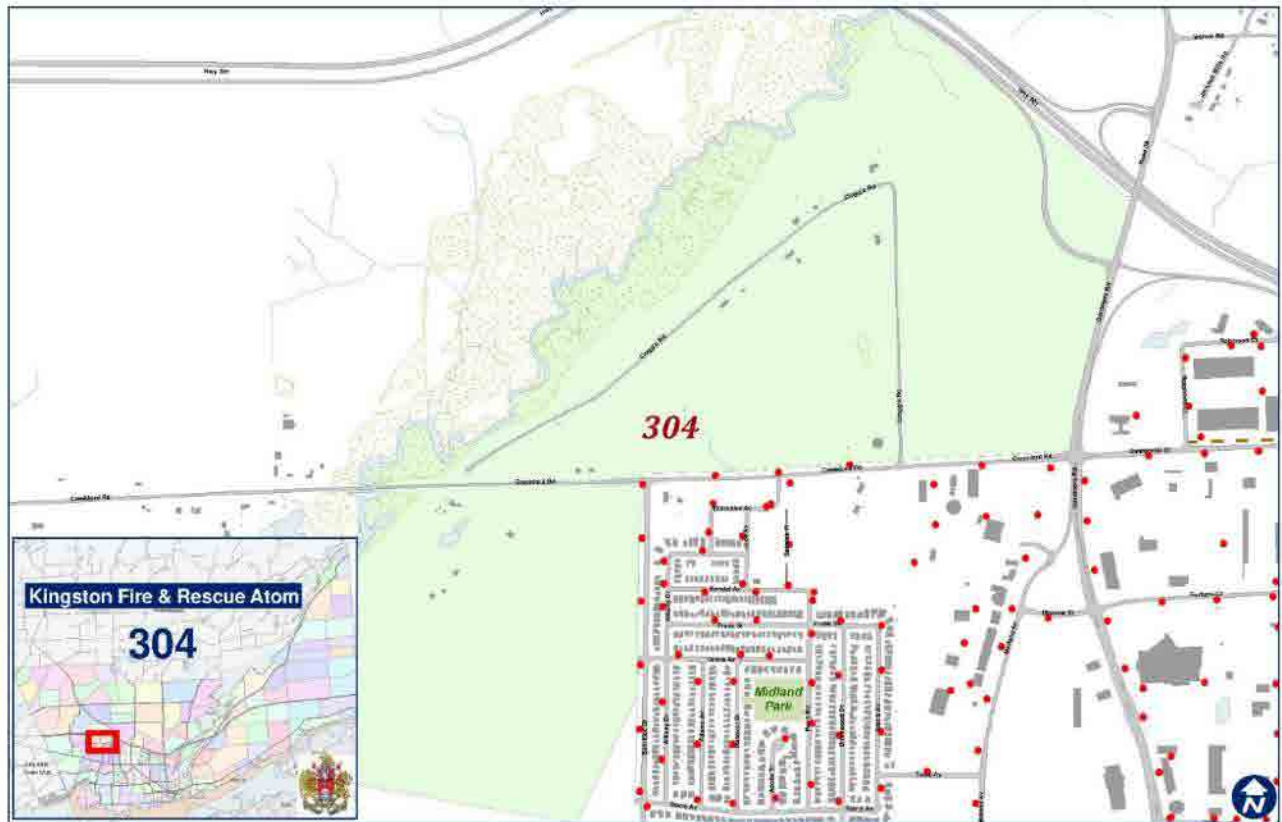
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #303	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #304 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services

- Other Business/personal services

Non-Structural Type(s)

- Brush/Forest
- Waterway

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 6
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$272,333
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #304	1	3	1	1	6
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	07:41
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #304	1.79
City of Kingston	450.40
ATOM Percentage of Total	0.4%

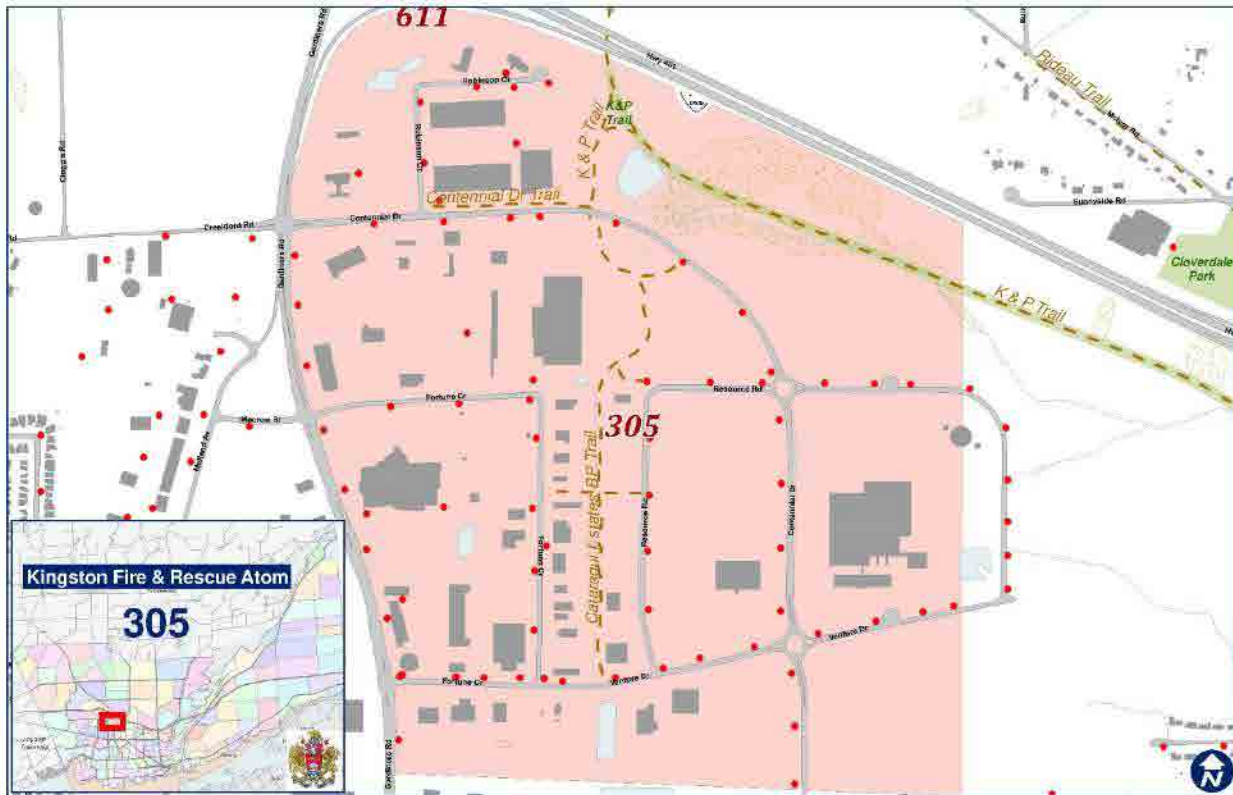
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #304	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #305 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Arenas/Swimming pools
- Participating/Viewing open air facilities
- Other assembly

Group C Residential

- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service
- Utilities – Sewage Treatment
- Chem/Petroleum /Paint/ Plastic products Mfg/process Agr/Food/Bev/Tobac products
- Storage Chem/Petrol/Paint/Plastic products
- Agr/Food/Bev/Tobac products
- Mfg/process other metal/elect/misc products
- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Sports field
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #305	12	7	42	15	76
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.2%	1%	1%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	09:26
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

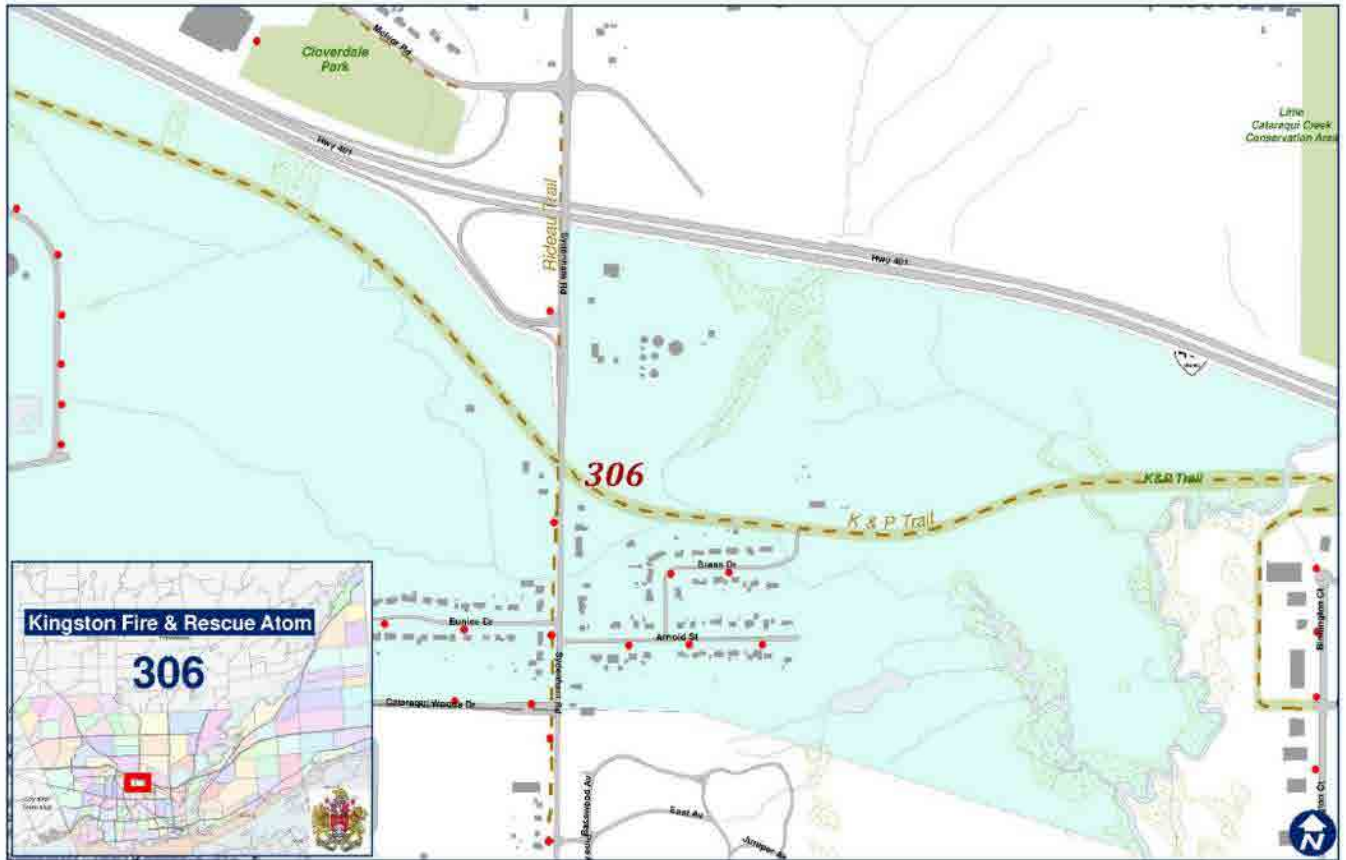
	Square Kilometre
ATOM #305	1.60
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #305	\$87,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #306 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal service

Group E Mercantile

- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Other Miscellaneous property, structure
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code
- Other Miscellaneous property, structure

Non-Structural Type(s)

- Brush/Forest
- Trails
- Waterways

Infrastructure System Type(s)

- Roadway
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 62
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$304,419
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #306	11	3	5	5	24
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.1%	0.1%	0.5%	0.2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	12:32
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

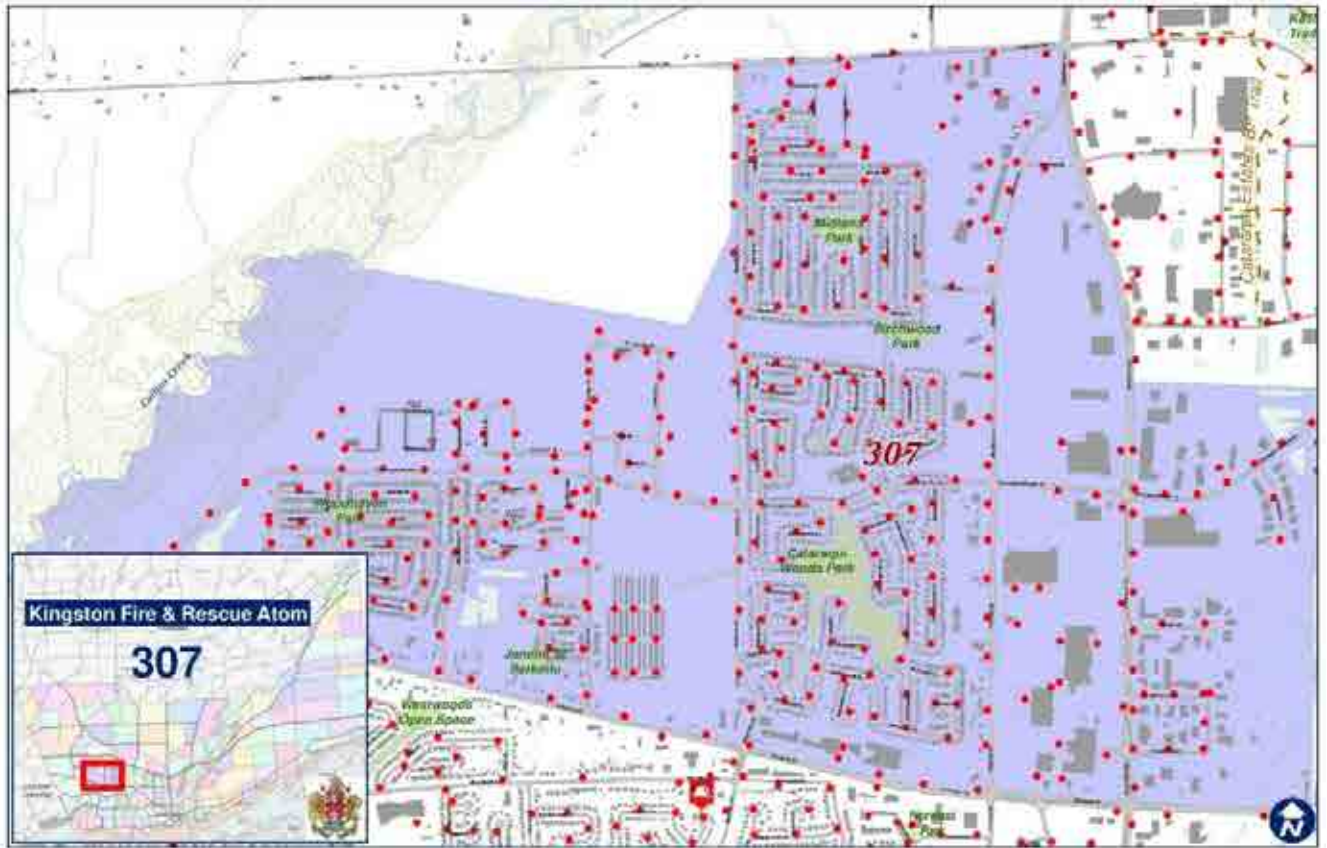
	Square Kilometre
ATOM #306	1.60
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #306	\$50,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.05%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #307- Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group B Care and Detention Occupancies

- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Storage vehicles, parts

Non-Structural Type(s)

- Parkland
- Trails
- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 1442
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$274,318
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #307	64	74	193	24	355
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	3%	2%	3%	2%	3%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	09:04
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #307	5.74
City of Kingston	450.40
ATOM Percentage of Total	1.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #307	\$145,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #308 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group B Care and Detention Occupancies

- Care facility
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Storage Chem/Petrol/Paint/Plastic products
- Agr/Food/Bev/Tobac products
- Storage Textile/cloth/leather products
- Storage Wood/Furn/Paper/print products
- Products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Parkland
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 426
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$348,509
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #308	10	41	55	3	109
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	1%	1%	0.2%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	09:07
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #308	0.91
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #308	\$60,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	5%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #309- Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Transportation Facility
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Multi-unit dwelling
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Group F Industrial

- Vehicle sales/service
- Utilities – Electrical
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Storage Textile/cloth/leather products
- Storage wood/Furn/Paper/print products
- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Parkland
- Brush/Forest
- Waterway

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 491
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$349,063
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #309	9	26	55	21	111
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	1%	1%	1.5%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	09:24
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

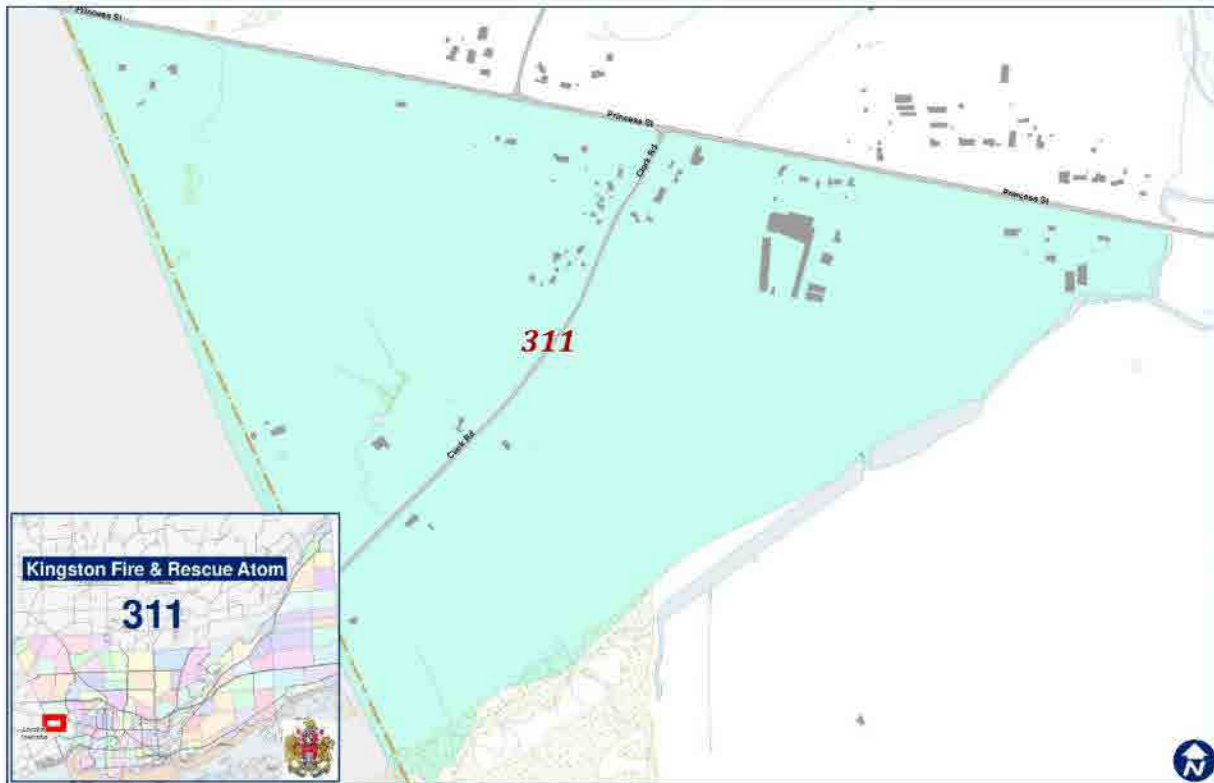
	Square Kilometre
ATOM #309	2.08
City of Kingston	450.40
ATOM Percentage of Total	0.5%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #309	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #311 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code
- Other Miscellaneous property, structure

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 17
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$285,765
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #311	3	2	1	3	9
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.1%	0.2%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	9:57
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #311	1.27
City of Kingston	450.40
ATOM Percentage of Total	0.3%

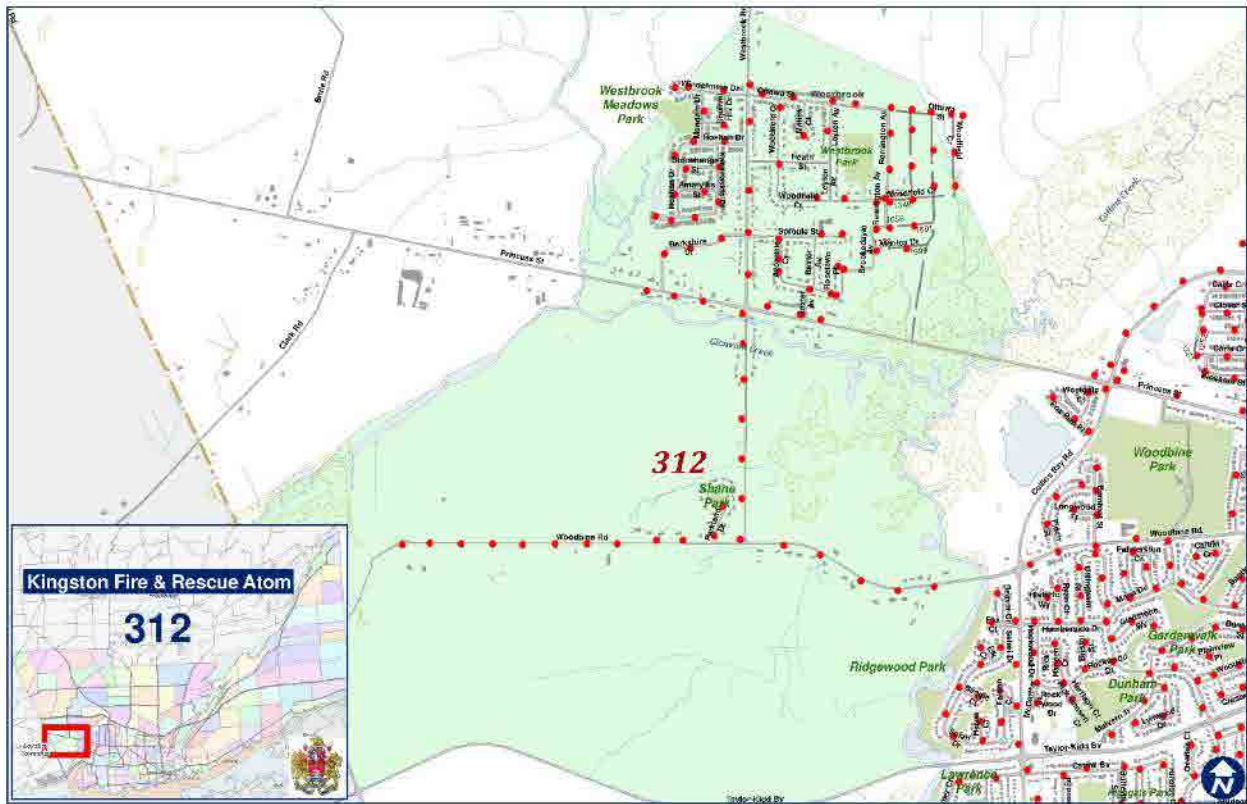
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #311	\$5,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.01%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #312 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Storage Wood/Furn/Paper/print products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Sports field
- Parkland
- Conservation area
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Bridge
- Gas Pipeline
- TransCanada Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 297
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$292,111
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #312	12	11	21	7	51
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.5%	0.5%	0.5%	0.5%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	11:01
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #312	5.71
City of Kingston	450.40
ATOM Percentage of Total	1.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #311	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #313 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Other assembly – Funeral Facility, Church

Group C Residential

- Detached/semi/attached residential

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Public Transit
- Roadway
- Communications Tower
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 587
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$375,094
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #313	6	15	22	9	52
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.5%	0.5%	0.5%	0.5%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	08:26
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #313	1.42
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #313	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #314 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Trails

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 1044
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$360,205
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #314	29	30	52	4	115
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	0.5%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	07:13
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #314	1.38
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #314	\$157,500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1.5%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #315 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Other assembly

Group B Care and Detention Occupancies

- Care facility
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Agr/Food/Bev/Tobac products
- Storage Textile/cloth/leather products
- Storage Wood/Furn/Paper/print products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts

Non-Structural Type(s)

- Sports field
- Waterways

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 1,072
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$292,466
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #315	58	92	86	39	275
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	3%	3%	1.5%	3%	2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	07:43
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

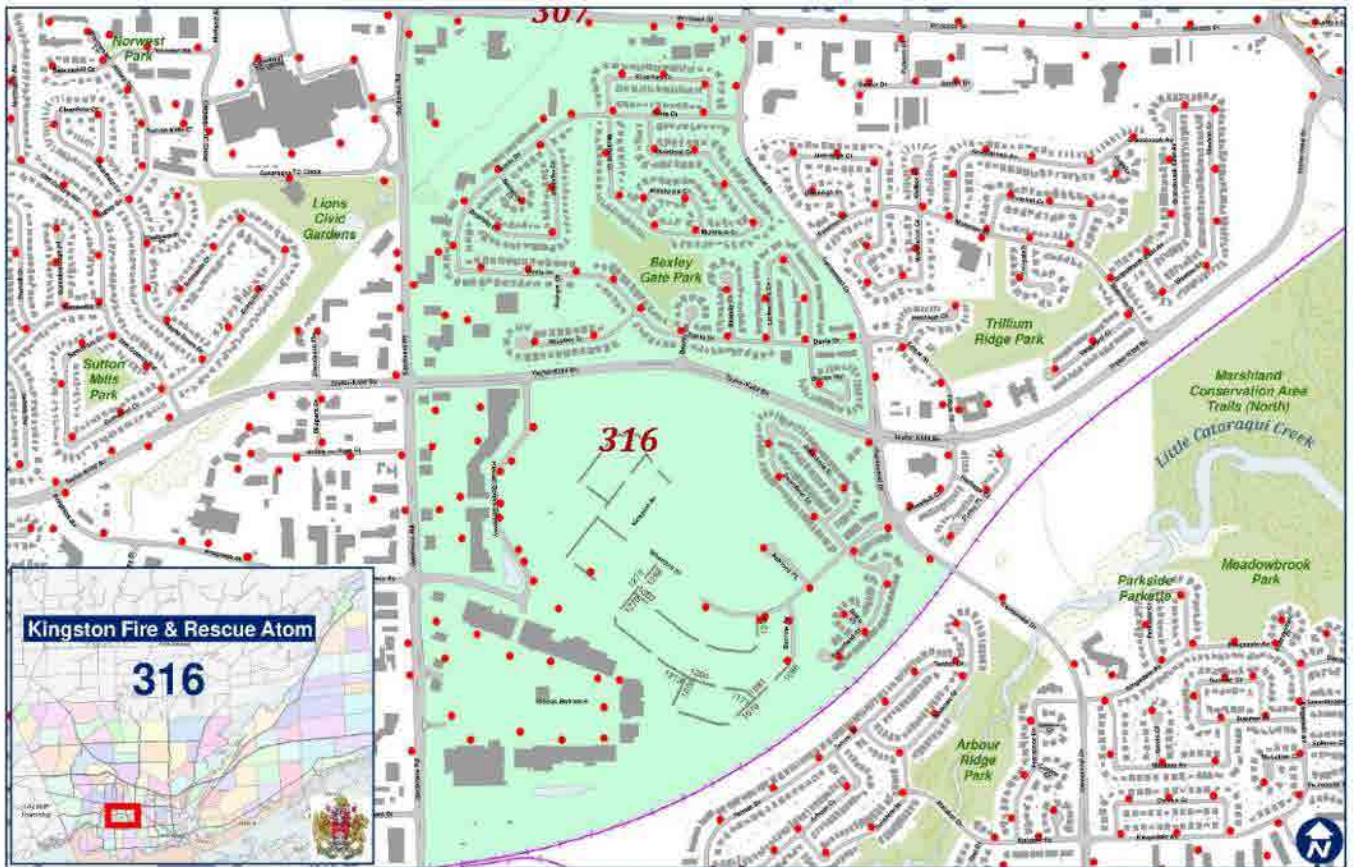
	Square Kilometre
ATOM #315	1.55
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #315	\$194,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #316 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group B Care and Detention Occupancies

- Care facility
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products
- Storage Chem/Petrol/Paint/Plastic products
- Storage Textile/cloth/leather products
- Storage Wood/Furn/Paper/print products
- Storage vehicles, parts
- Other Industrial
- Utilities – Electrical

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 759
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$275,758
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #316	26	43	104	68	241
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1.5%	2%	5%	2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	08:27
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #316	1.77
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #316	\$21,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #317 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group B Care and Detention Occupancies

- Persons under supervisory care
- Care facility
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet

Non-Structural Type(s)

- Parkland
- Trails

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 635
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$279,983
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #317	16	36	80	52	184
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	1%	1.5%	4%	1.5%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	08:42
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

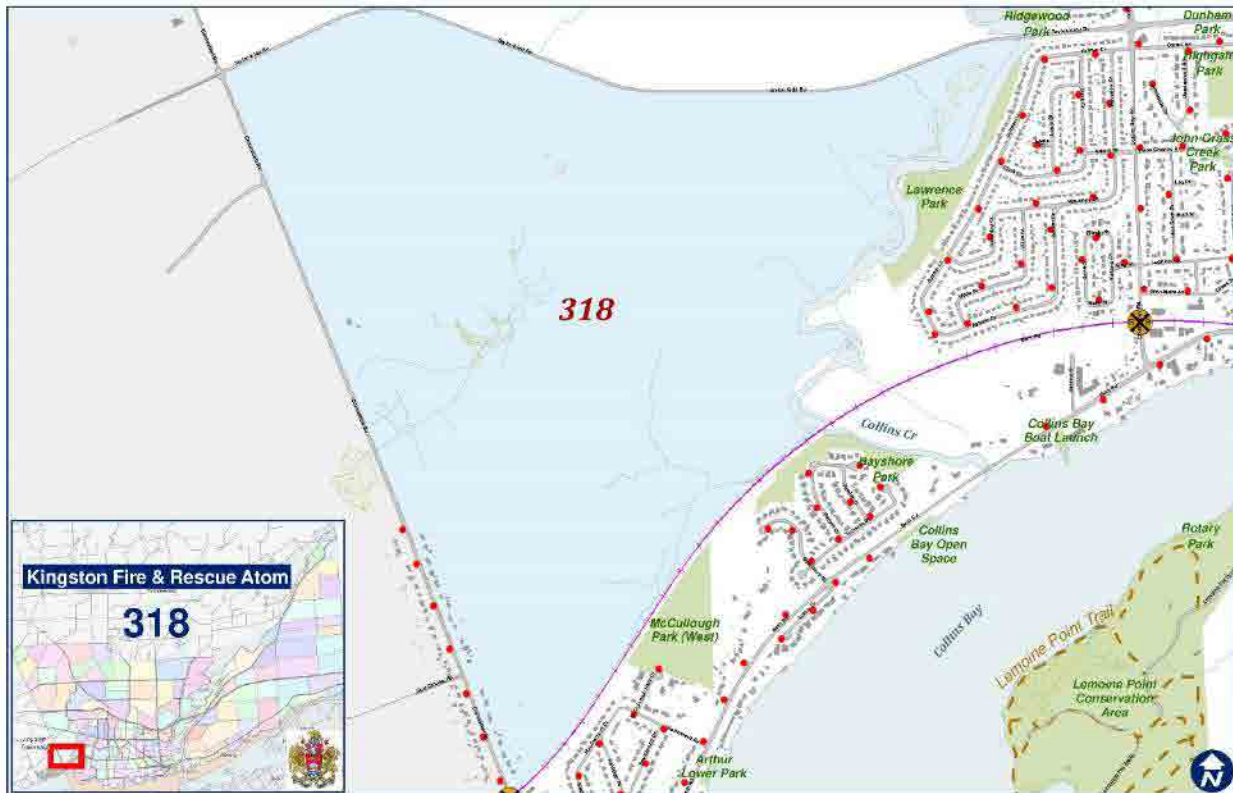
	Square Kilometre
ATOM #317	1.09
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #317	\$15,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #318 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Non-Structural Type(s)

- Waterways
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 20
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$274,900
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #318	1	2	0	0	3
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.0%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	07:34
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #318	2.44
City of Kingston	450.40
ATOM Percentage of Total	0.5%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #318	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #319 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 672
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$252,168
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #319	10	21	25	10	66
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	1%	0.5%	1%	0.5%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	10:07
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #319	1.10
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #319	\$33,500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #320 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Department store/catalogue/mail outlet

Non-Structural Type(s)

- Sports field
- Parkland

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 645
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$288,848
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #320	10	16	23	7	56
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.5%	0.5%	0.5%	0.5%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	09:08
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #320	1.22
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #320	\$9,500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #321 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Arenas/Swimming pools
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Chem/Petroleum /Paint/ Plastic products Mfg/process
- Chem/Petrol/Paint/Plastic products
- Agr/Food/Bev/Tobac products
- Storage Wood/Furn/Paper/print products
- Mfg/process other metal/elect/misc products
- Storage Wood/Furn/Paper/ print products
- Storage vehicles, parts
- Other Industrial

Non-Structural Type(s)

- Sports field
- Parkland
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 948
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$281,247
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #321	46	52	57	46	201
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	2%	2%	1%	3%	2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	09:12
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #321	2.22
City of Kingston	450.40
ATOM Percentage of Total	0.5%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #321	\$330,200	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #322 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group B Care and Detention Occupancies

- Care facility
- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Parkland
- Conservation area
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 777
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$289,834
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	09:10
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #322	39	47	63	12	161
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	2%	1.5%	1%	1%	1%

Land Area

	Square Kilometre
ATOM #322	1.44
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #322	\$15,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #323 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 168
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$416,440
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #323	3	2	11	3	19
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.2%	0.2%	0.2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	12:30
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #323	0.54
City of Kingston	450.40
ATOM Percentage of Total	0.1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #323	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #324 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service
- Mfg/process textiles/cloth/leather products

Non-Structural Type(s)

- Sports field
- Waterways
- Marina(multiple water craft)
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Communications tower

Single Family Residential Property

- ATOM Property Count: 112
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$459,196
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #324	4	5	12	8	29
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.2%	0.5%	0.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	09:53
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #324	0.48
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #324	\$1,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #325 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group B Care and Detention Occupancies

- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service
- Storage vehicles, parts

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Conservation area
- Trails
- Marina(multiply water craft)
- Brush/Forest
- Open Pit/Quarry

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count:919
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$330,347
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #325	23	41	48	12	124
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1.5%	1%	1%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	09:27
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #325	1.28
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #325	\$86,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #326 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility
- Arenas/Swimming pools
- Other assembly

Group C Residential

- Detached/semi/attached residential
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service

Non-Structural Type(s)

- Sports field
- Parkland

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Railway
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 1011
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$319,859
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #326	33	65	93	20	211
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1.5%	2%	1.5%	1.5%	2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	07:45
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #326	1.57
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #326	\$79,500	1	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	7%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #327 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Miscellaneous structure
- Classed under National Farm Building Code
- Other Miscellaneous property, structure

Non-Structural Type(s)

- Parkland
- Waterways
- Conservation area
- Trails
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 6
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$751,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #327	3	3	1	1	8
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.1%	0.1%

2017-2019 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	08:58
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #327	1.05
City of Kingston	450.40
ATOM Percentage of Total	0.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #327	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #328 – Rural – Low Risk



Structural Occupancy Type(s)

Structures/Properties not classified by the Ontario Building Code

- Other Miscellaneous property, structure

Non-Structural Type(s)

- Sports field
- Aircrafts

Infrastructure System Type(s)

- Municipal Water System

Single Family Residential Property

- ATOM Property Count: 28
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$485,607
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	Y

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #328	0	0	0	0	0
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2019-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	NA
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #328	2.40
City of Kingston	450.40
ATOM Percentage of Total	0.5%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #328	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #330- Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Transportation Facility

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Vehicle/Aircraft sales/service

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Waterways
- Aircrafts
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Communications tower

Single Family Residential Property

- ATOM Property Count: 58
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$619,707
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	Y

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #330	0	3	10	2	15
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.1%	0.2%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	08:27
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #330	0.48
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #330	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #331- Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group B Care and Detention Occupancies

- Group/Retirement Home

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Hotel/Motel/Lodging

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 1392
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$325,795
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #331	27	35	68	8	138
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	1%	0.5%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	07:13
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

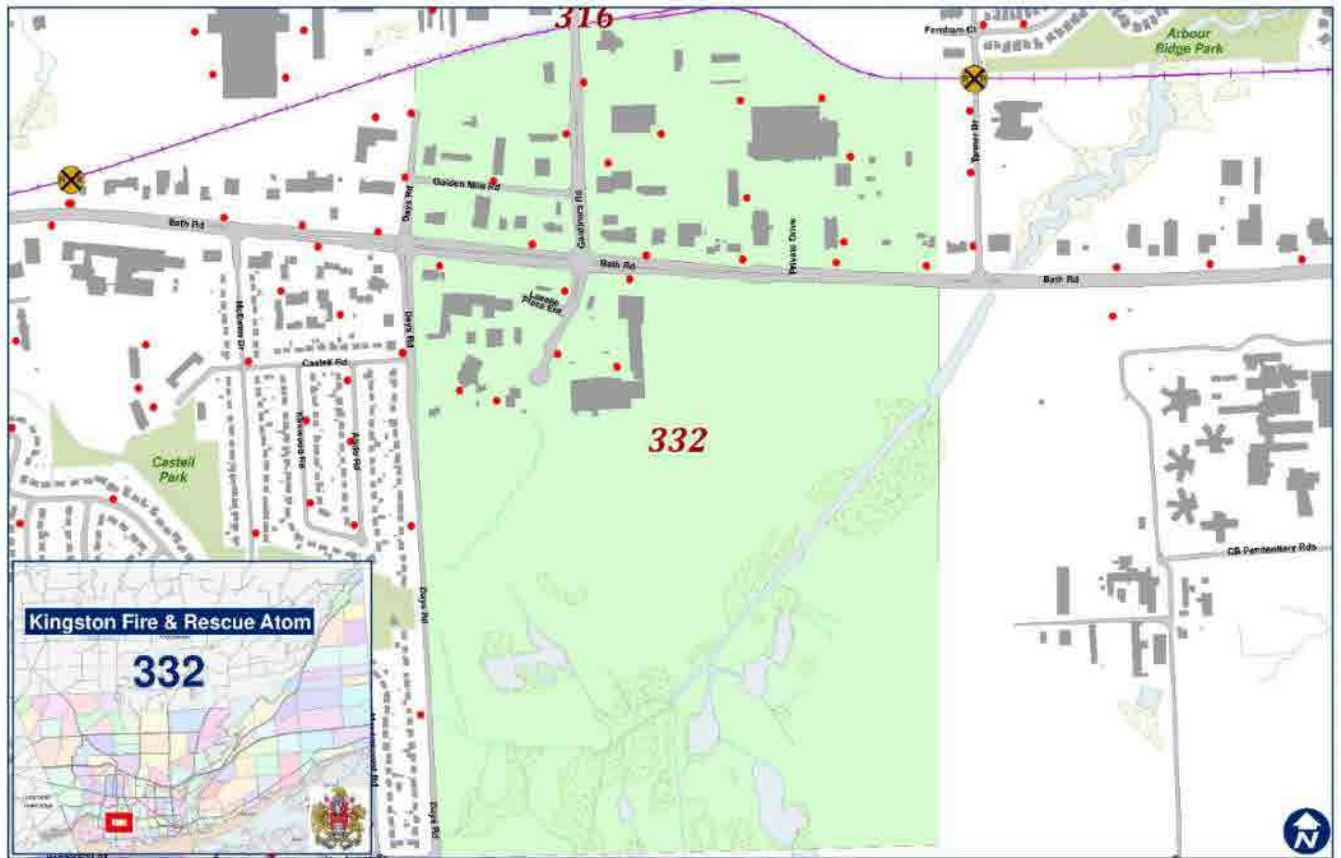
	Square Kilometre
ATOM #331	1.86
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #331	\$17,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.2%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #332 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Multi-unit dwelling

Group D Business and Personal Services

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores
- Other mercantile

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service

Non-Structural Type(s)

- Conservation area
- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Railway
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 1
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$263,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #332	14	22	28	25	89
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	1%	0.5%	2%	1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	06:29
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #332	1.13
City of Kingston	450.40
ATOM Percentage of Total	0.3%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #332	\$6,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #333- Urban – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Rooming/Boarding
- Seasonal dwelling/Mobile home

Group F Industrial

- Utilities – Electrical
- Utilities – Water Treatment
- Utilities – Sewage Treatment
- Storage Chem/Petrol/Paint/Plastic products
- Storage Textile/cloth/leather products
- Mfg/process textiles/cloth/leather products
- Other Industrial

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Parkland
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Railway
- Bridge
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Power generating source (Invista)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 199
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$370,704
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #333	7	8	33	3	51
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.1%	0.5%	0.1%	0.5%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	07:10
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

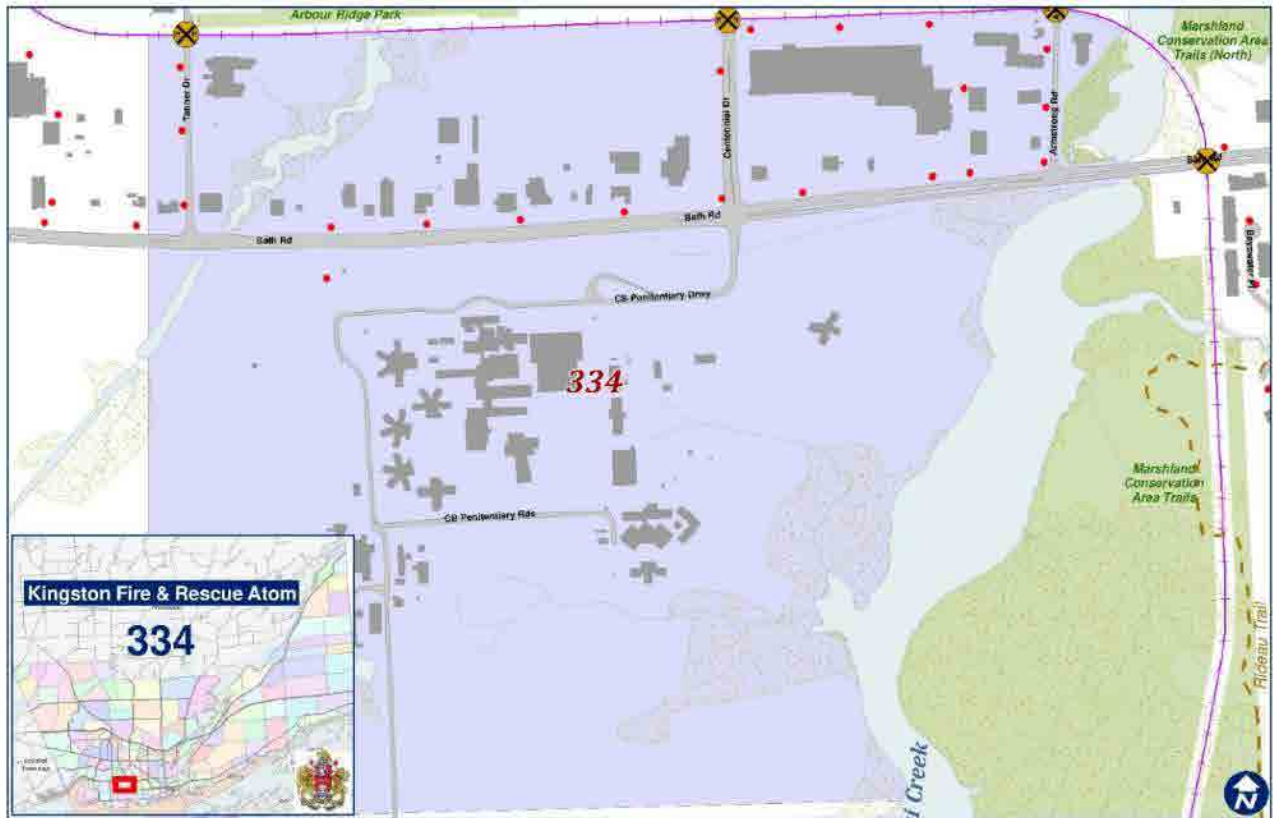
	Square Kilometre
ATOM #333	1.84
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #333	\$5,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #334 – Urban – Moderate Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Arenas/Swimming pools
- Other assembly

Group B Care and Detention Occupancies

- Persons under restraint
- Care facility
- Transitional shelter

Group C Residential

- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Department store/catalogue/mail outlet
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Utilities – Electrical
- Mfg/process Agr/Food/Bev/Tobac products
- Storage Chem/Petrol/Paint/Plastic products
- Agr/Food/Bev/Tobac products
- Storage Textile/cloth/leather products
- Storage Wood/Furn/Paper/print products
- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Miscellaneous structure
- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Conservation area
- Marina(multiply water craft)
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #334	15	13	73	27	128
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	1%	0.5%	1%	2%	1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	08:00
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #334	1.71
City of Kingston	450.40
ATOM Percentage of Total	0.4%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #334	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #335- Urban – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Non-Structural Type(s)

- Sports field
- Waterways
- Conservation area
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Railway
- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 35
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$640,171
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #335	11	14	29	2	56
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.5%	0.5%	0.1%	0.5%

2019-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	08:50
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #335	2.56
City of Kingston	450.40
ATOM Percentage of Total	0.6%

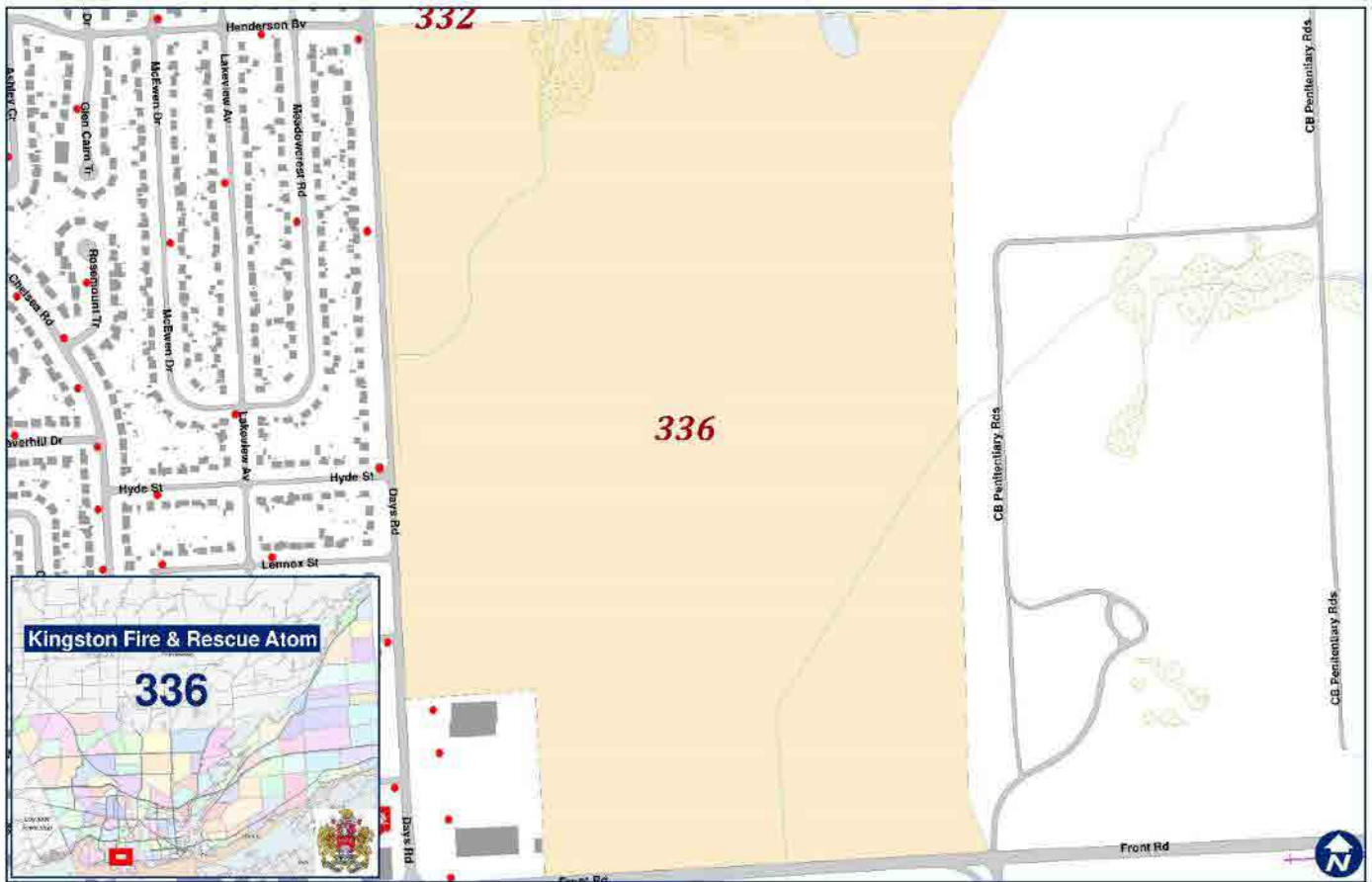
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #335	\$1,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #336- Urban – Low Risk



Structural Occupancy Type(s)

Structures/Properties not classified by the Ontario Building Code

- Other Miscellaneous property, structure

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Public Transit
- Municipal Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #336	2	3	1	1	7
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	14:13
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

	Square Kilometre
ATOM #336	0.77
City of Kingston	450.40
ATOM Percentage of Total	0.2%

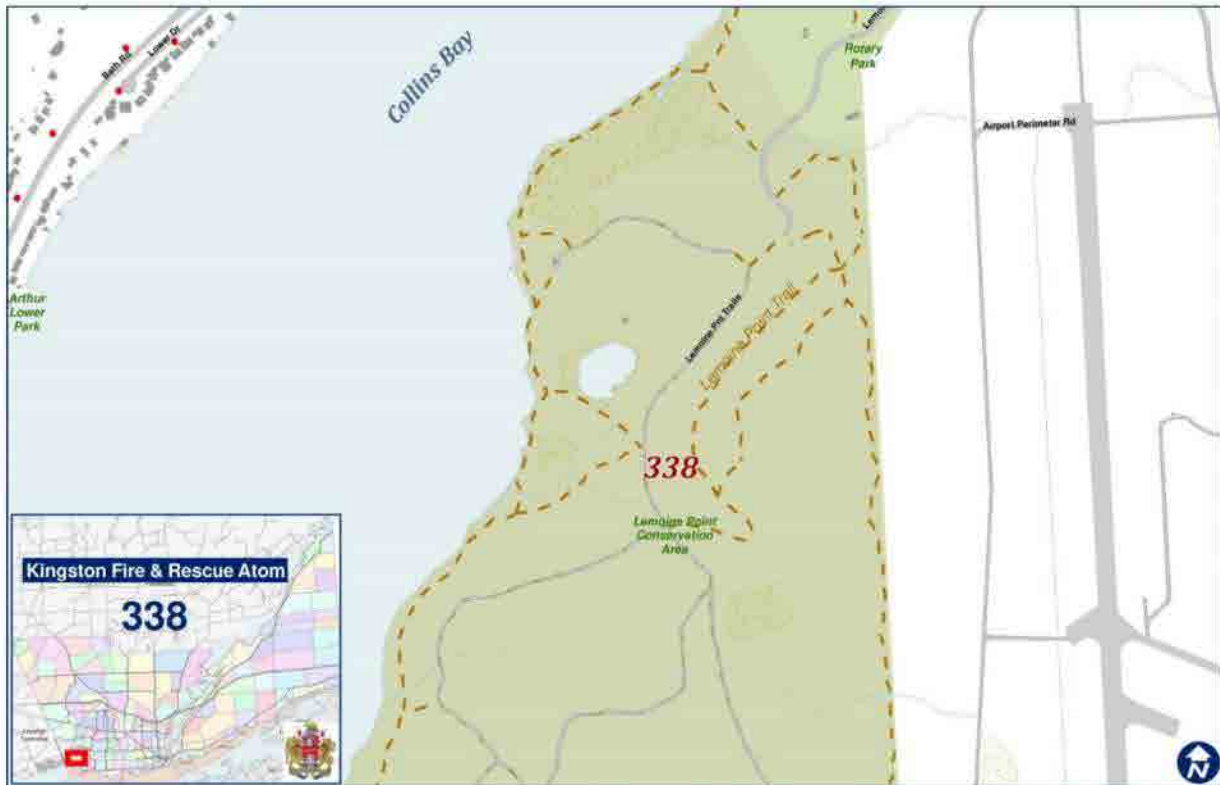
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #336	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #338 – Rural – Low Risk



Structural Occupancy Type(s)

NA

Non-Structural Type(s)

- Conservation Area
- Trails
- Brush/Forest
- Waterways

Infrastructure System Type(s)

NA

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	N	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #338	0	0	0	0	0
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2017-2019 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	NA
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

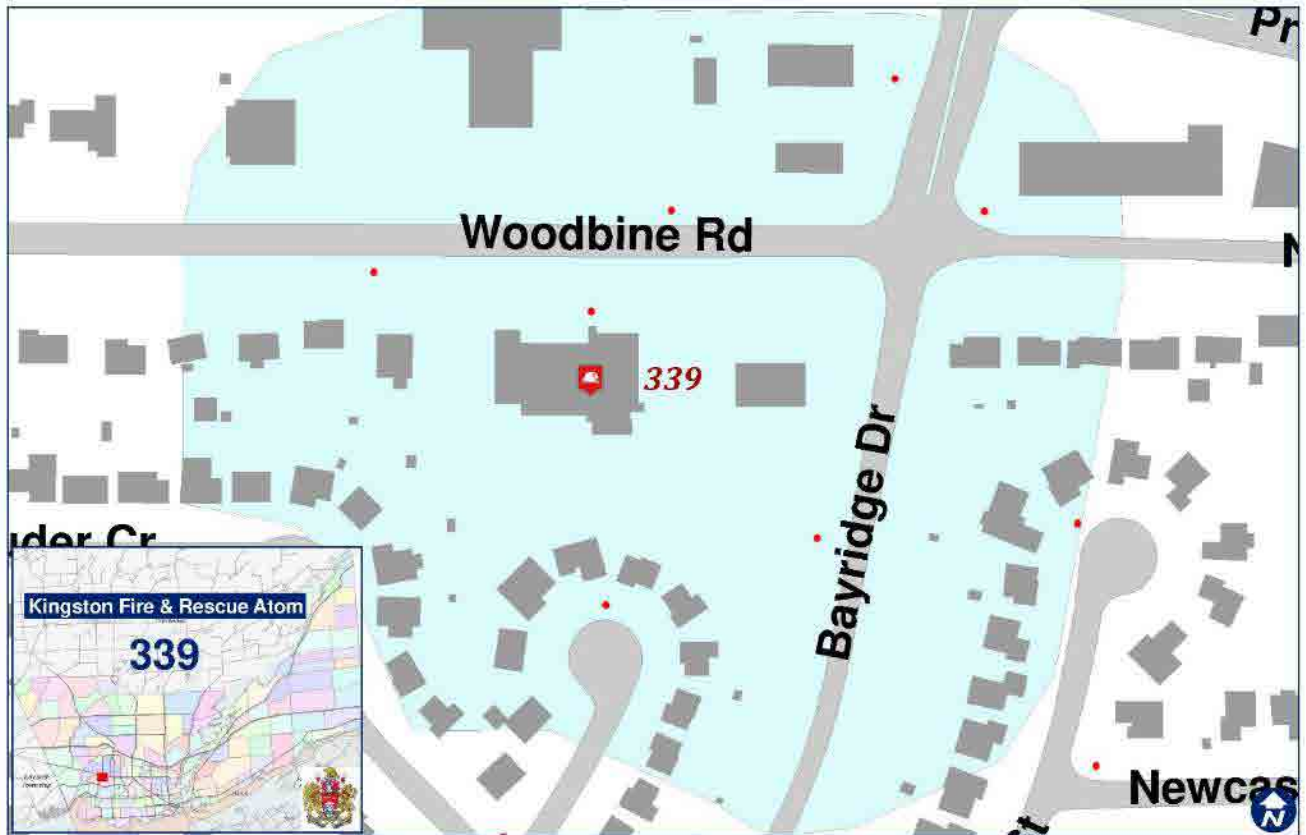
	Square Kilometre
ATOM #338	0.73
City of Kingston	450.40
ATOM Percentage of Total	0.2%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #338	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #339 – Urban – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales

Group F Industrial

- Vehicle sales/service
- Other Industrial

Non-Structural Type(s)

NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- TransCanada Pipeline Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 33
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$286,818
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #339	1	0	28	1	30
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	08:48
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

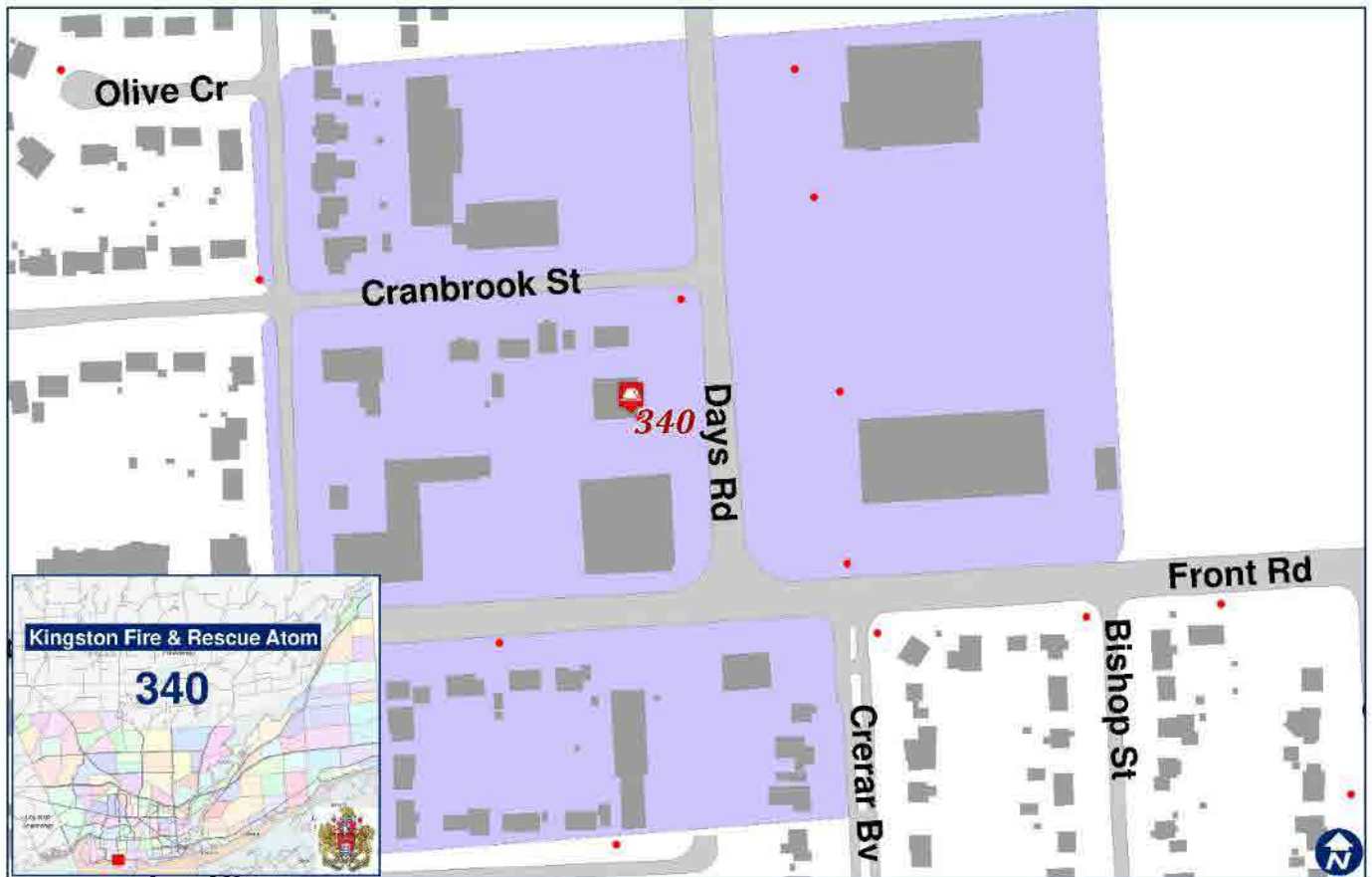
	Square Kilometre
ATOM #339	0.07
City of Kingston	450.40
ATOM Percentage of Total	0.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #339	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #340 – Urban – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Education facility
- Arenas/Swimming pools

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Multi-unit dwelling

Group D Business and Personal Services

- Other Business/personal services

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group E Mercantile

- Food/beverage sales
- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service

Non-Structural Type(s)

- Sports field

Infrastructure System Type(s)

- Roadway
- Public Transit
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 25
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$270,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #340	1	6	8	1	16
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 90th Percentile	05:47
Kingston Fire & Rescue Urban Career Standard Response Benchmark: 90th Percentile	06:50

Land Area

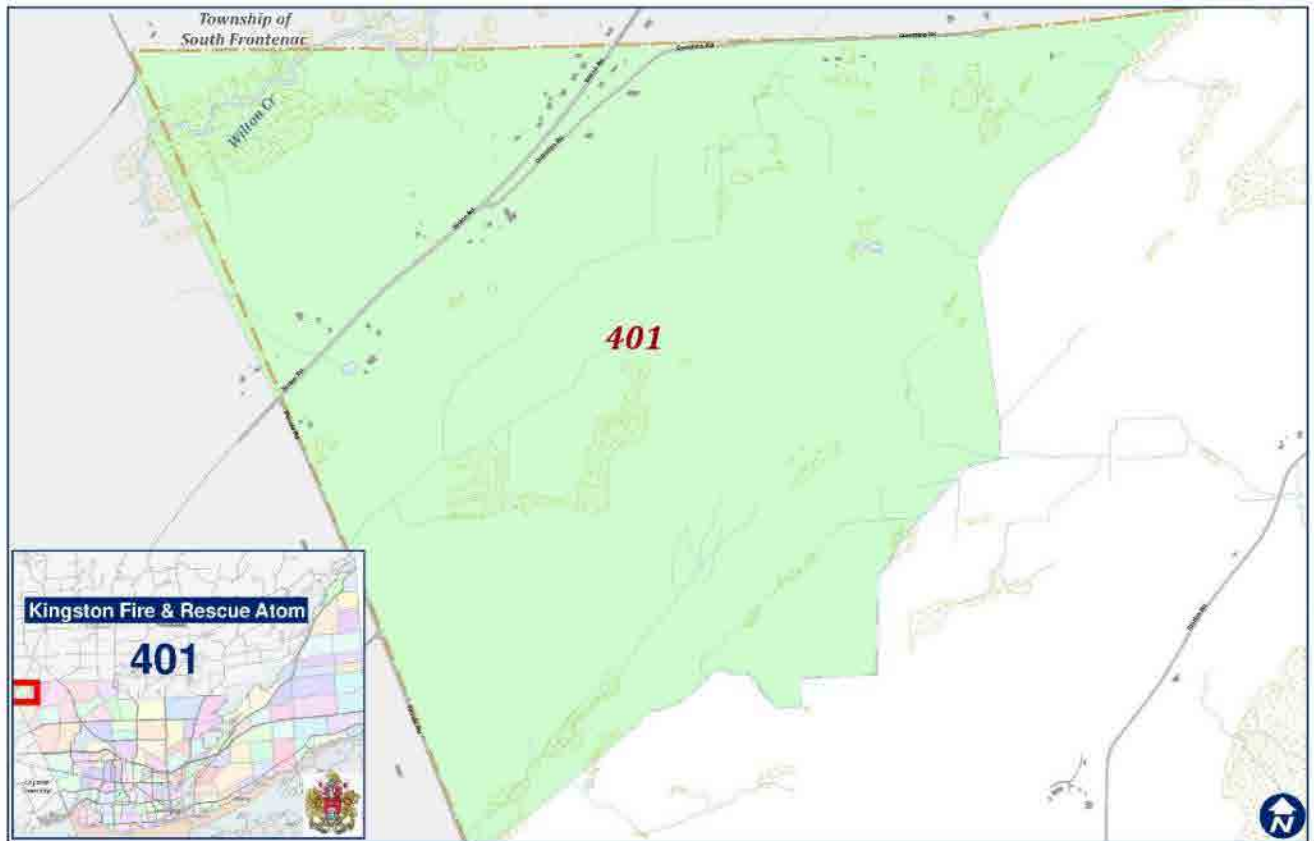
	Square Kilometre
ATOM #340	0.11
City of Kingston	450.40
ATOM Percentage of Total	0.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #340	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #401- Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Private Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 12
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$307,333
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #401	1	1	1	1	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	18:08
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #401	3.05
City of Kingston	450.40
ATOM Percentage of Total	0.7%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #401	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #402 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Conservation area
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Private Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 1
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$279,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #402	0	0	0	0	0
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2019-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	NA
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #402	4.09
City of Kingston	450.40
ATOM Percentage of Total	0.9%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #402	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #403 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal services

Structures/Properties not classified by the Ontario Building Code

- Miscellaneous structure
- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Trails
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Open (outdoor) storage
- Transportation Network

Single Family Residential Property

- ATOM Property Count: 20
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$341,650
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #403	1	0	0	0	1
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.0%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	14:23
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #403	5.35
City of Kingston	450.40
ATOM Percentage of Total	1.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #403	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #404 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest
- Trails

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 35
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$297,457
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #404	4	1	1	6	12
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.1%	0.5%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:03
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #404	6.45
City of Kingston	450.40
ATOM Percentage of Total	1.4%

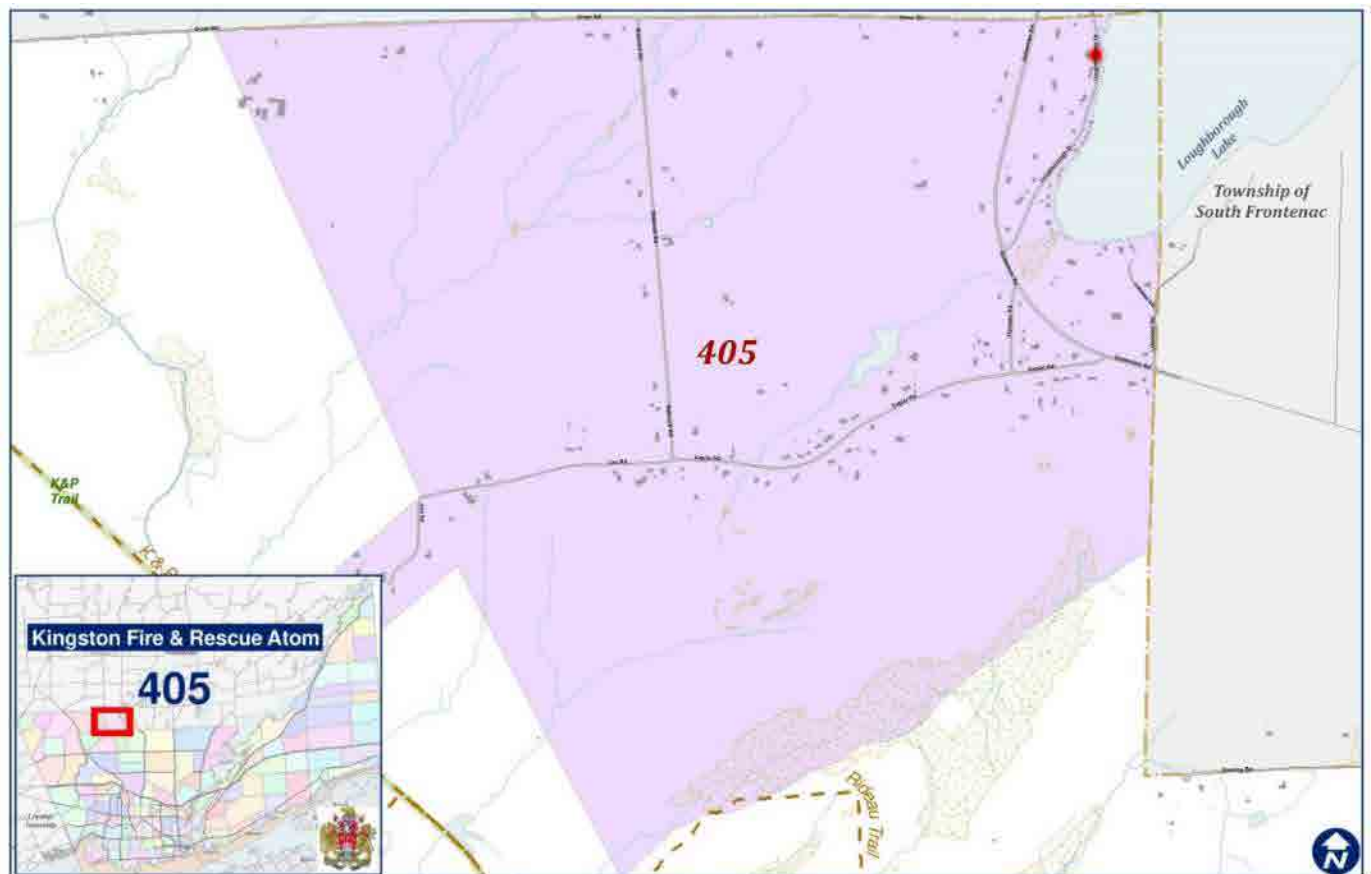
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #404	\$410,000		0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	4%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #405 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 70
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$331,757
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #405	7	2	1	3	13
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.1%	0.1%	0.2%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	17:56
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #405	4.15
City of Kingston	450.40
ATOM Percentage of Total	0.9%

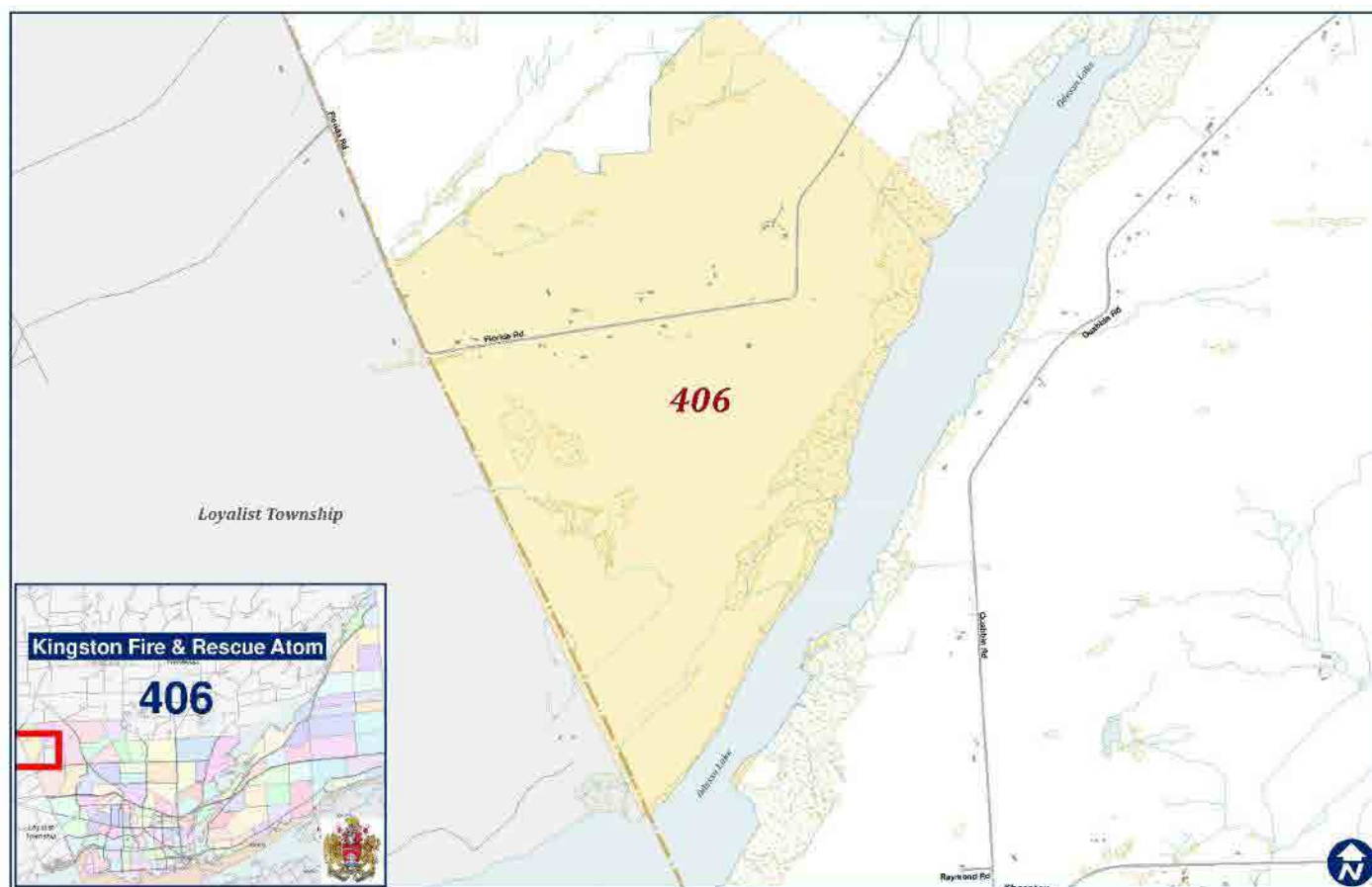
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #405	\$529,500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	5%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #406 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Conservation area
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 9
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$263,667
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #406	0	1	1	1	3
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	17:20
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #406	4.09
City of Kingston	450.40
ATOM Percentage of Total	0.9%

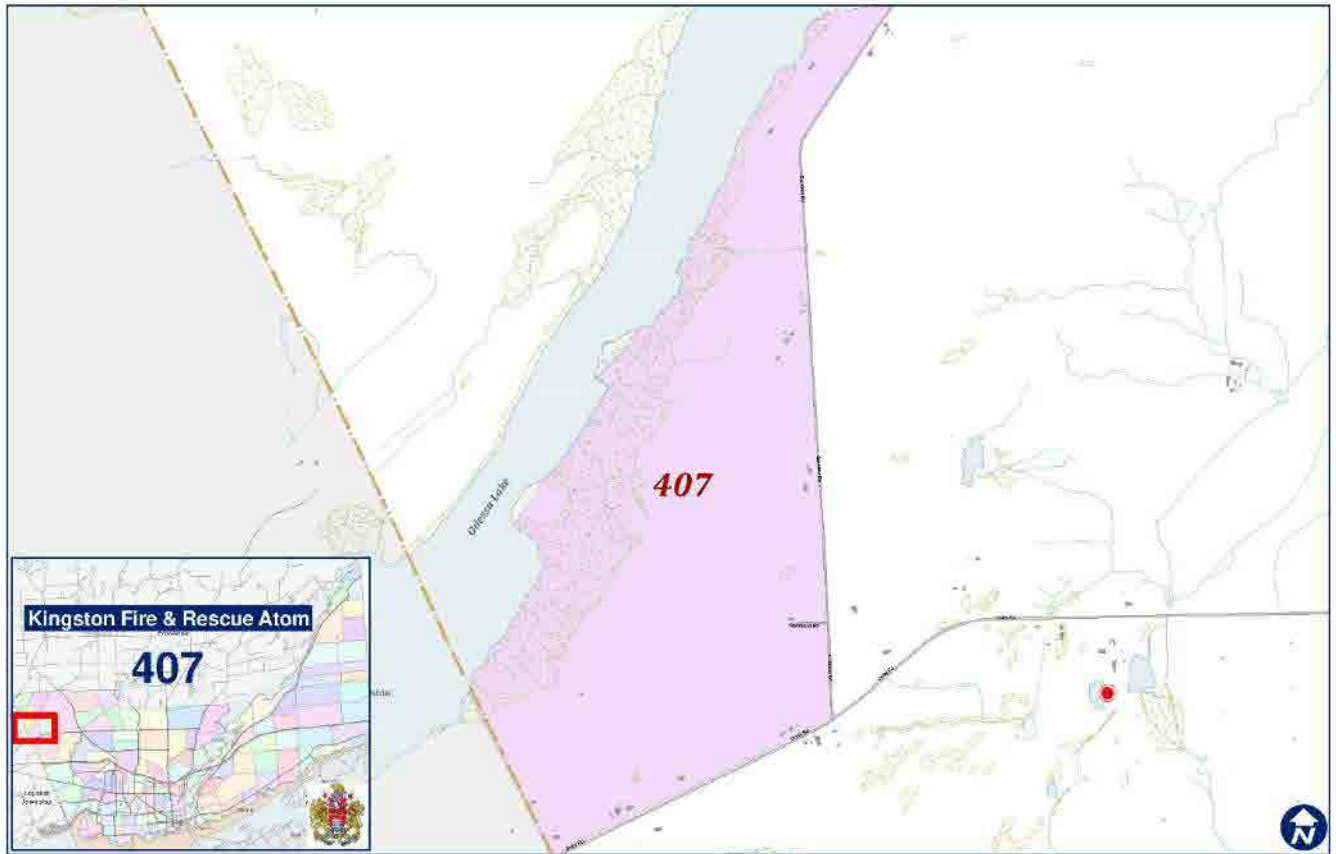
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #406	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #407 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 8
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$340,625
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #407	0	0	0	0	0
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	NA
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #407	1.80
City of Kingston	450.40
ATOM Percentage of Total	0.4%

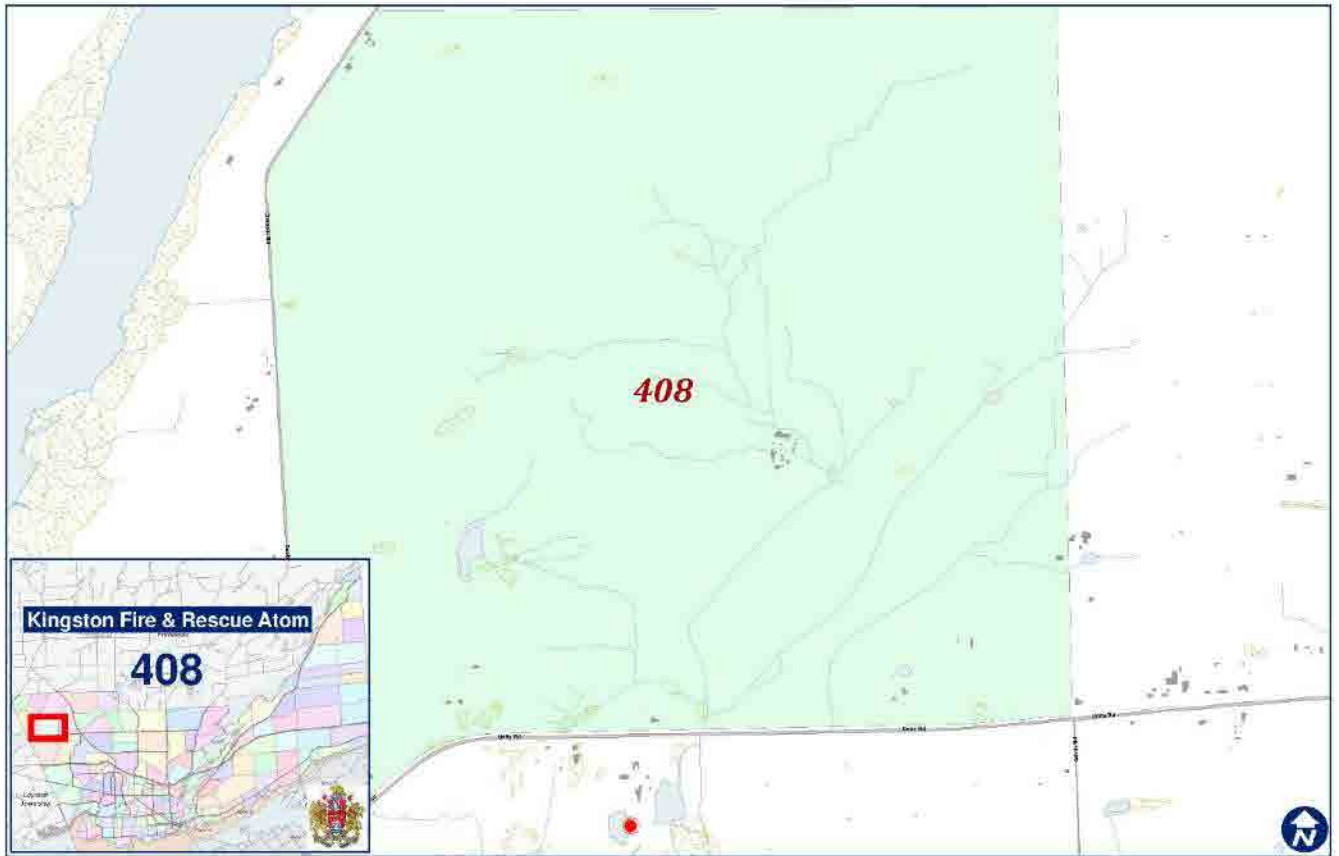
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #407	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #408 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code
- Other Miscellaneous property, structure
- Water tower

Non-Structural Type(s)

- Trails
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 5
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$319,800
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #408	0	2	1	1	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	16:38
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #408	4.08
City of Kingston	450.40
ATOM Percentage of Total	0.9%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #408	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #409- Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code
- Other Miscellaneous property, structure

Non-Structural Type(s)

- Open Pit/Quarry
- Conservation area
- Brush/Forest
- Waterways

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Power generating source (solar farm, RMC Reactor, Large Generators)

Single Family Residential Property

- ATOM Property Count: 24
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$312,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #409	0	2	1	2	5
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	12:29
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

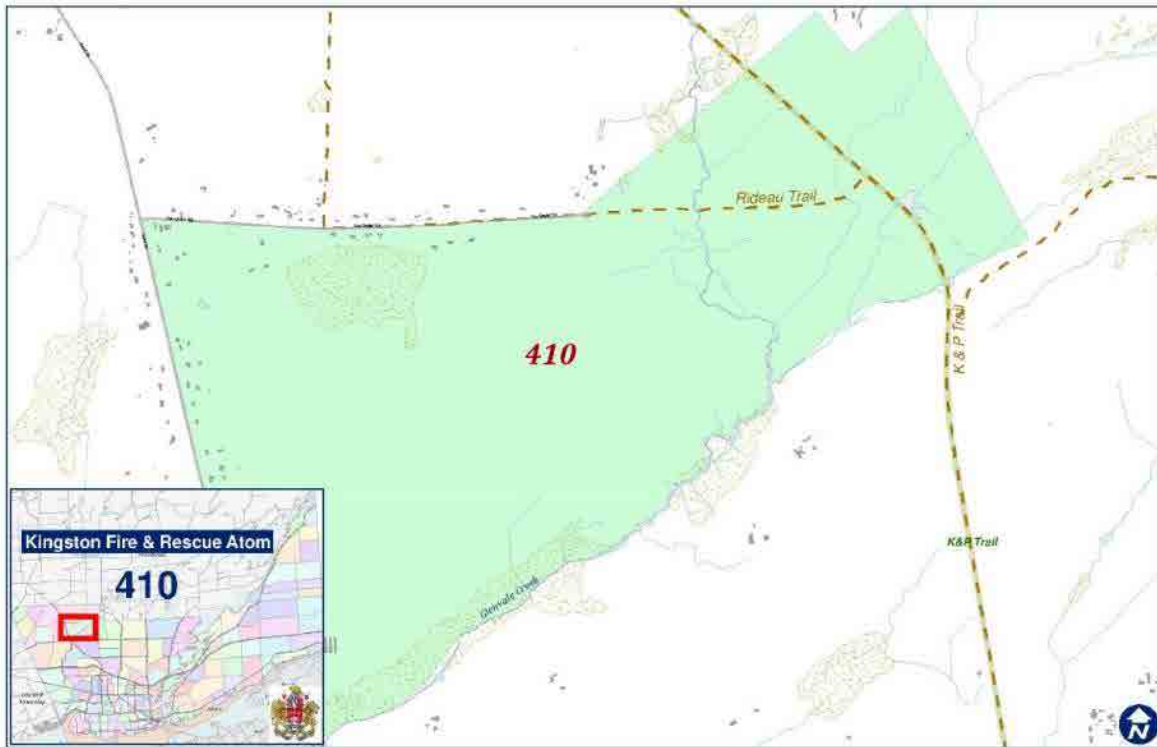
	Square Kilometre
ATOM #409	4.97
City of Kingston	450.40
ATOM Percentage of Total	1.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #409	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #410 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Specialty stores
- Other mercantile

Group F Industrial

- Vehicle sales/service
- Mfg/process textiles/cloth/leather products

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 15
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$350,400
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #410	6	3	1	4	14
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	12:10
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

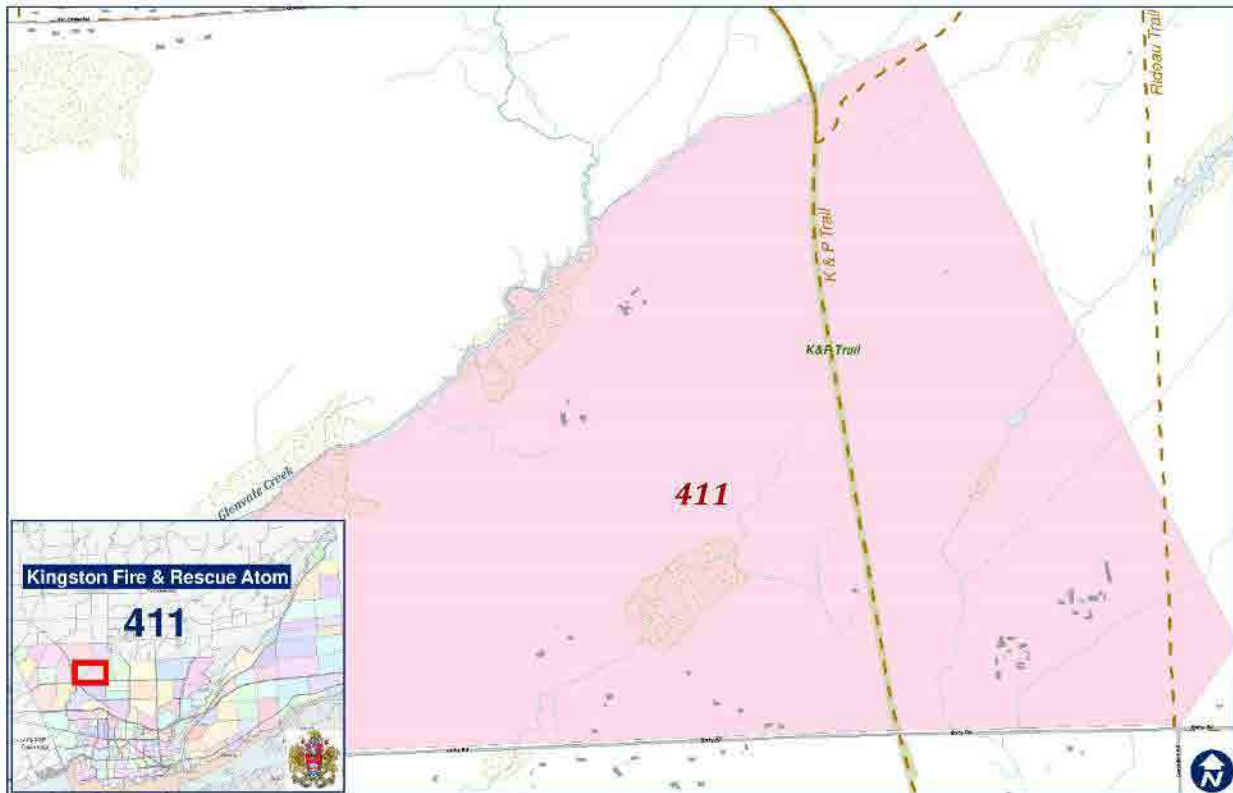
	Square Kilometre
ATOM # 410	3.98
City of Kingston	450.40
ATOM Percentage of Total	0.9%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #410	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #411 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Trails
- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Private Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 14
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$327,429
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #411	0	0	1	0	1
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	14:44
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #411	3.97
City of Kingston	450.40
ATOM Percentage of Total	0.9%

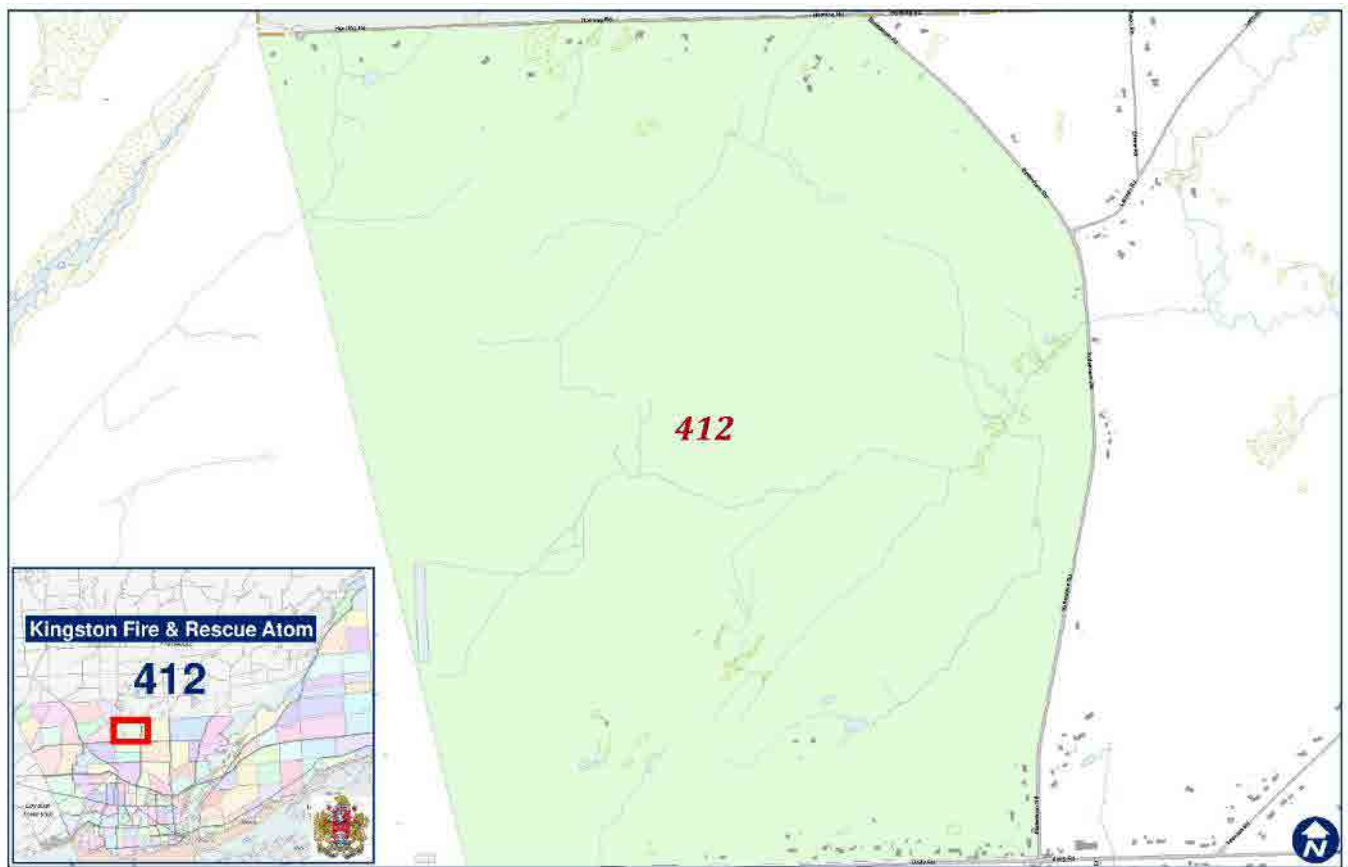
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #411	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #412 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Power generating source (solar farm, RMC Reactor, Large Generators)

Single Family Residential Property

- ATOM Property Count: 29
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$282,172
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #412	2	0	0	1	3
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.0%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	12:31
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #412	4.17
City of Kingston	450.40
ATOM Percentage of Total	0.9%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #412	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #413 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group E Mercantile

- Food/beverage sales

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code
- Other Miscellaneous property, structure

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 123
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$312,179
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #413	7	10	3	8	28
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.3%	0.1%	0.5%	0.2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	12:16
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #413	7.00
City of Kingston	450.40
ATOM Percentage of Total	1.6%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #413	\$25,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #414 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Specialty stores

Group F Industrial

- Vehicle sales/service
- Storage Wood/Furn/Paper/print products
- Mfg/process Wood/Furn/Paper/print products

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 56
- City of Kingston Property Count: 28,630
- ATOM Average Property Value: \$332,893
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #414	1	4	4	3	12
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.2%	0.1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	11:06
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM # 414	9.26
City of Kingston	450.40
ATOM Percentage of Total	2.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #414	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #415 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Education facility

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 64
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$280,859
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #415	6	3	3	5	17
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.1%	0.1%	0.3%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:24
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM # 415	6.27
City of Kingston	450.40
ATOM Percentage of Total	1.4%

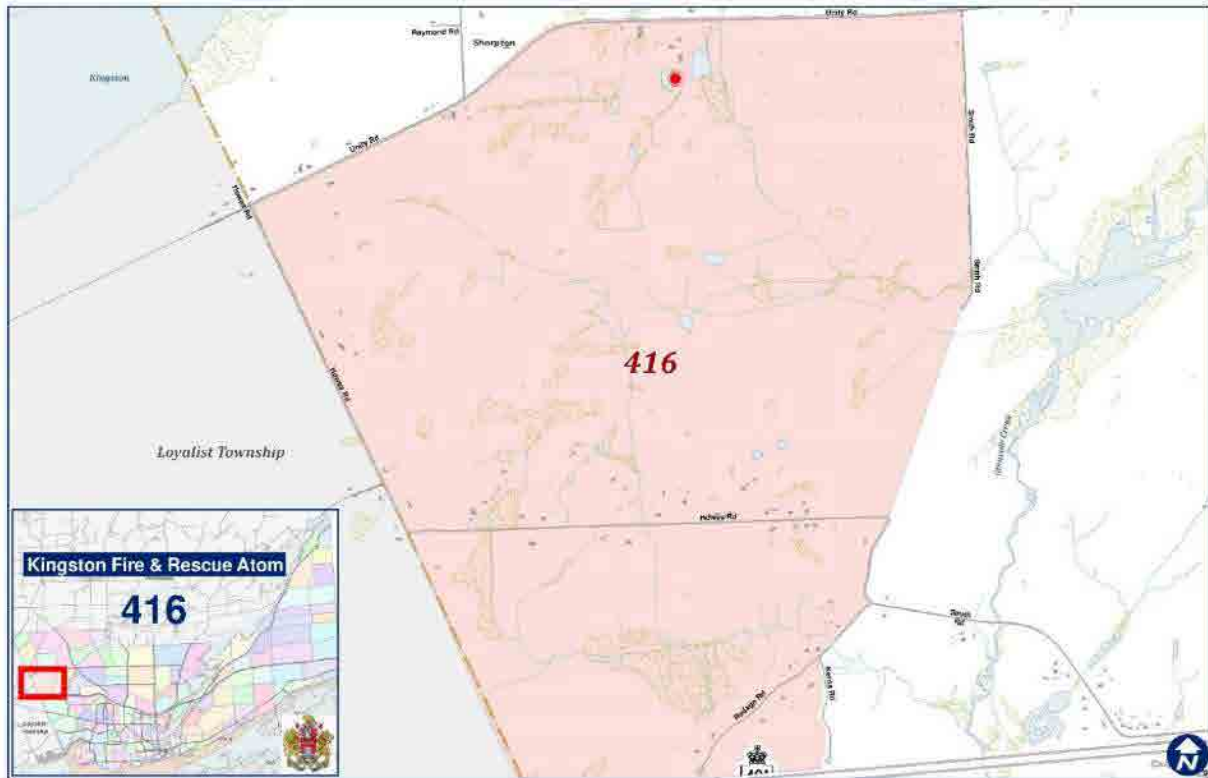
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #415	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #416 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- TransCanada Pipeline
- Electrical distribution 1 (to structures)
- Power generating source (solar farm, RMC Reactor, Large Generators)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 27
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$364,815
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #416	2	0	2	0	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	15:41
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #416	6.80
City of Kingston	450.40
ATOM Percentage of Total	1.5%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #416	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #417 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal services

Group F Industrial

- Storage Wood/Furn/Paper/print products
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Trails
- Brush/Forest
- Open Pit/Quarry
- Waterways

Infrastructure System Type(s)

- Roadway
- TransCanada Pipeline
- Gas Pipeline
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Power generating source (solar farm, RMC Reactor, Large Generators)
- Communications tower
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 22
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$306,591
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #417	5	1	4	0	10
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.1%	0.0%	0.1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	17:35
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

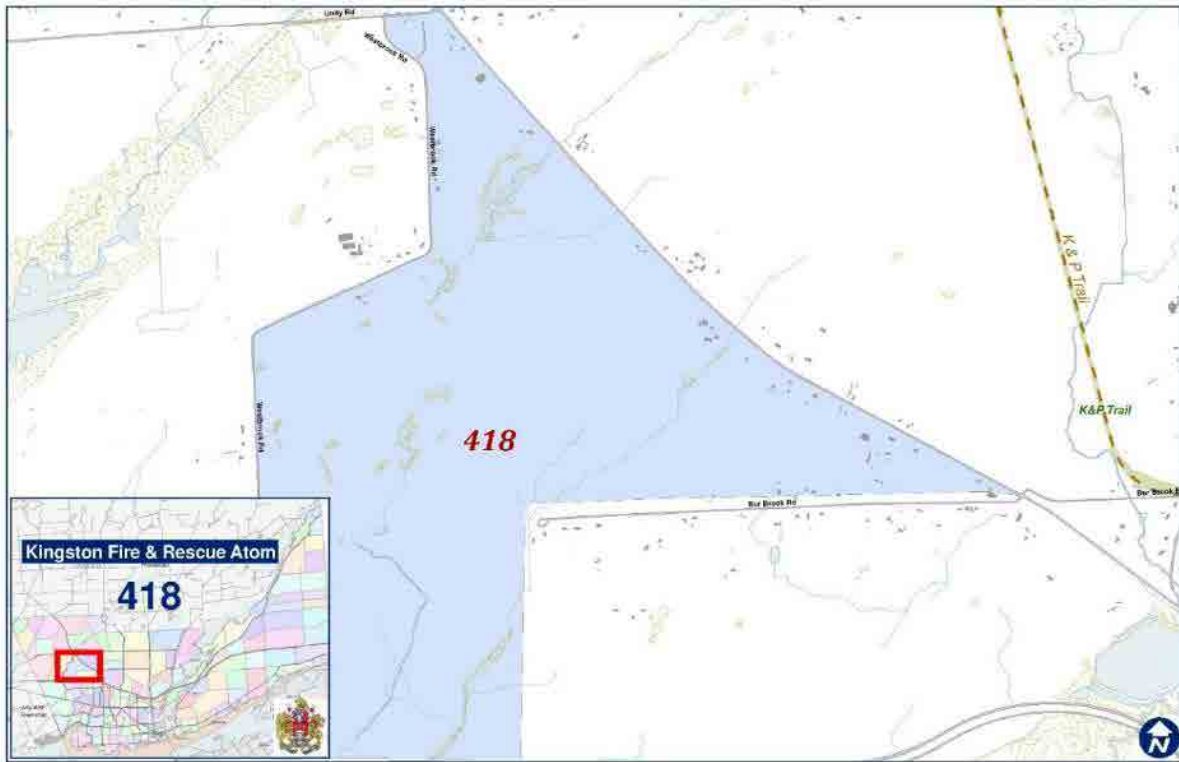
	Square Kilometre
ATOM #417	6.09
City of Kingston	450.40
ATOM Percentage of Total	1.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #417	\$25,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.3%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #418 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Other mercantile

Group F Industrial

- Storage Wood/Furn/Paper/print products
- Mfg/process Wood/Furn/Paper/print products
- Vehicles, parts
- Other Industrial

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Gas Pipeline
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 16
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$261,312
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #418	3	0	1	3	7
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	14:41
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #418	4.57
City of Kingston	450.40
ATOM Percentage of Total	1.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #418	\$2,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #419 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Seasonal dwelling/Mobile home
- Hotel/Motel/Lodging

Group D Business and Personal Services.

- Other Business/personal services

Group F Industrial

- Mfg/process other metal/elect/misc products

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code
- Other Miscellaneous property, structure

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Sports field
- Brush/Forest
- Trails

Infrastructure System Type(s)

- Roadway
- TransCanada Pipeline
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 28
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$326,214
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #419	5	1	0	7	13
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.0%	0.5%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	12:40
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

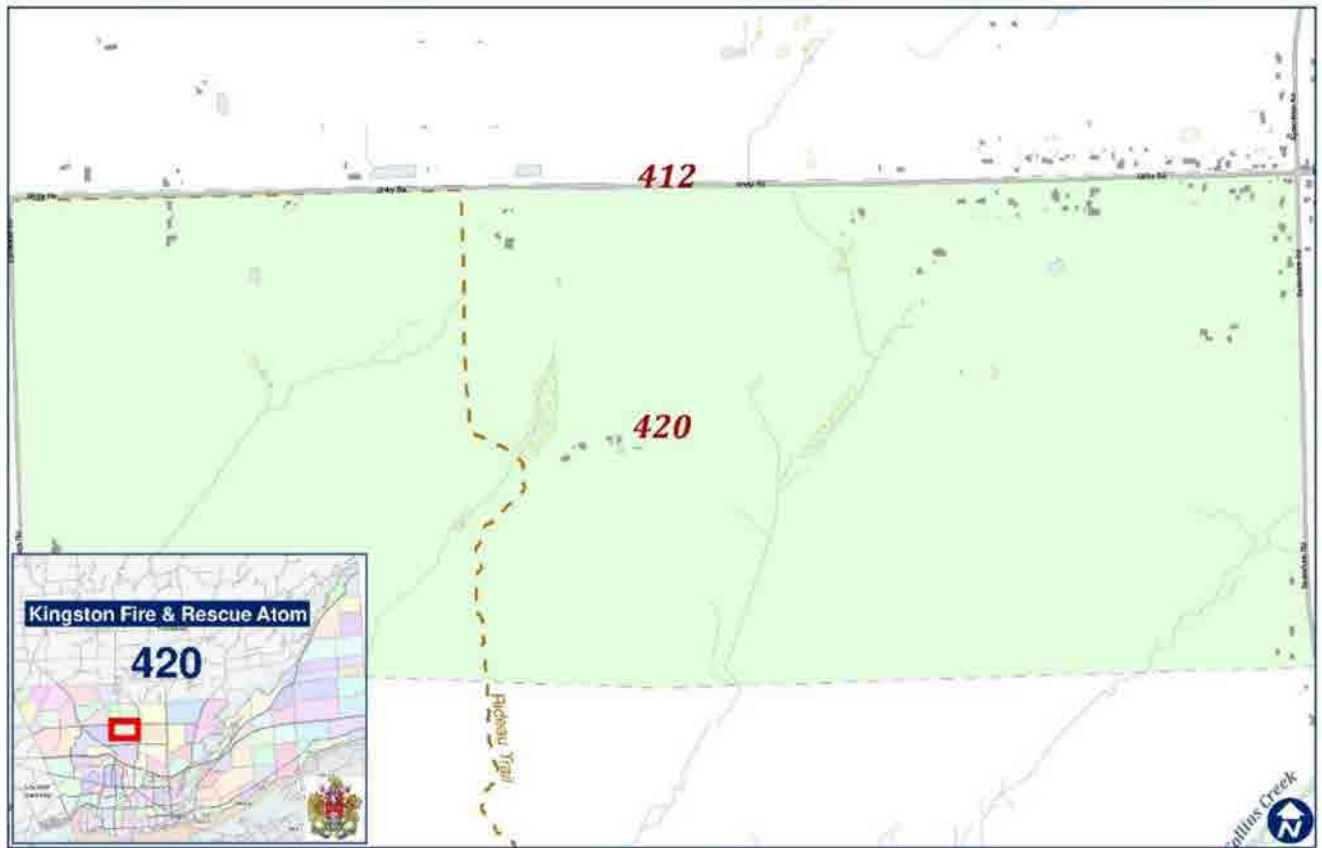
	Square Kilometre
ATOM #419	4.80
City of Kingston	450.40
ATOM Percentage of Total	1.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #419	\$10,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #420 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group F Industrial

- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Trails
- Brush/Forest
- Open Pit/Quarry

Infrastructure System Type(s)

- Roadway
- TransCanada Pipeline
- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 23
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$303,783
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #420	1	1	4	0	6
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	9:59
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

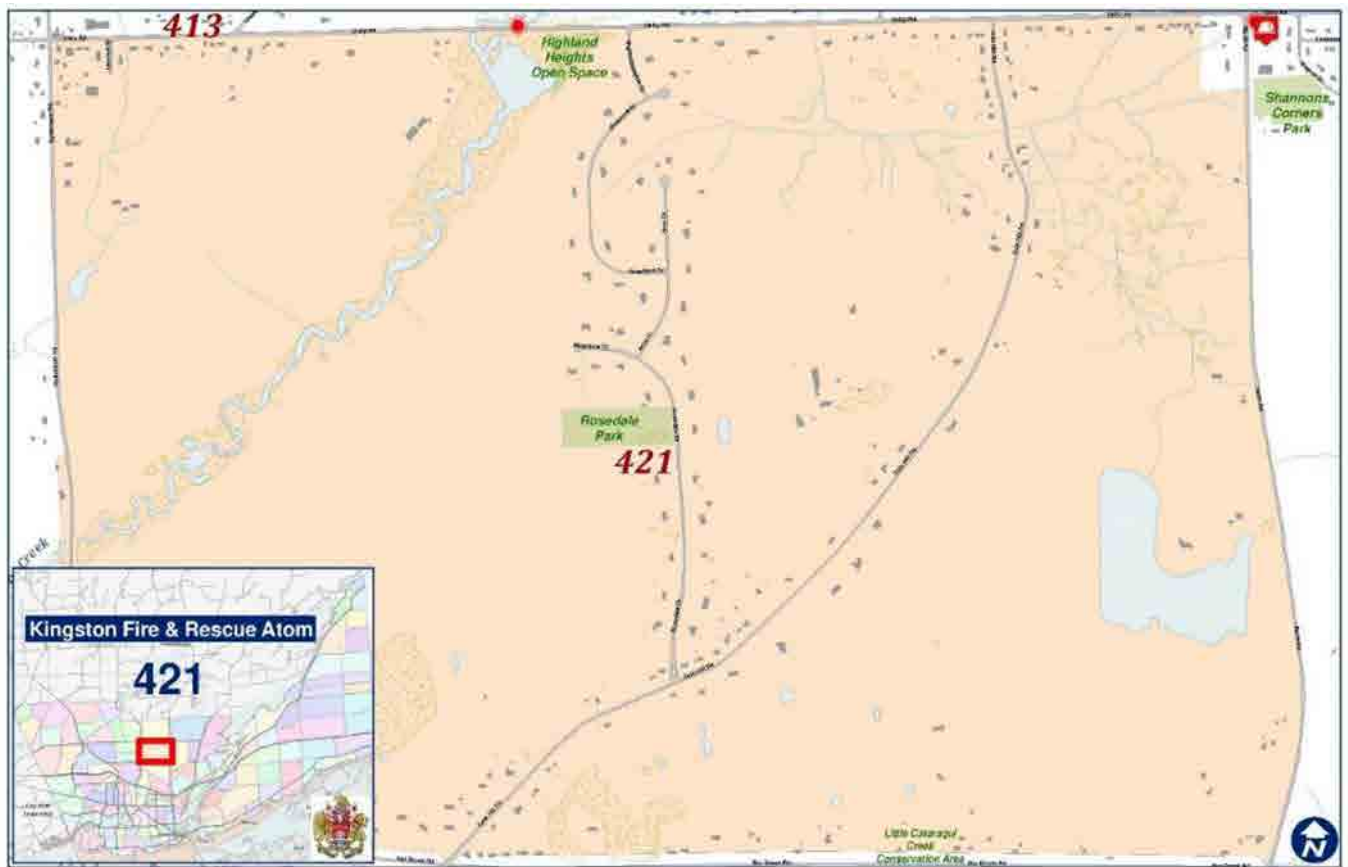
	Square Kilometre
ATOM #420	2.95
City of Kingston	450.40
ATOM Percentage of Total	0.7%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #420	\$75,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.7%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #421 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Brush/Forest
- Quarry
- Waterways

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 166
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$347,060
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #421	8	2	7	6	23
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.1%	0.1%	0.5%	0.2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	11:11
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #421	6.69
City of Kingston	450.40
ATOM Percentage of Total	1.5%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #421	\$1,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #422 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code
- Other Miscellaneous property, structure

Non-Structural Type(s)

- Sports field
- Waterways
- Trails
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count:96
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$310,719
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #422	3	7	4	0	14
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.2%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	12:38
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #422	5.07
City of Kingston	450.40
ATOM Percentage of Total	1.1%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #422	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #423 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group B Care and Detention Occupancies

- Persons under supervisory care

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services

- Other Business/personal services

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Non-Structural Type(s)

- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- TransCanada Pipeline
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)

Single Family Residential Property

- ATOM Property Count: 31
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$315,452
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #423	2	3	9	0	14
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.2%	0.0%	0.1%

2017-2019 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	12:41
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #423	2.43
City of Kingston	450.40
ATOM Percentage of Total	0.5%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #423	\$5,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #424 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Private Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 96
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$364,021
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #424	4	4	9	3	20
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.2%	0.2%	0.2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:45
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #424	3.05
City of Kingston	450.40
ATOM Percentage of Total	0.7%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #424	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #425 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt

Group D Business and Personal Services.

- Other Business/personal services

Structures/Properties not classified by the Ontario Building Code

- Miscellaneous structure
- Classed under National Farm Building Code

Non-Structural Type(s)

- Waterways
- Trails
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 29
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$348,724
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #425	3	0	5	3	11
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.1%	0.2%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:36
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #425	3.06
City of Kingston	450.40
ATOM Percentage of Total	0.7%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #425	\$75,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #426 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Recreation/sports facility
- Arenas/Swimming pools

Group C Residential

- Detached/semi/attached residential
- Dual/residential/business/ apt
- Multi-unit dwelling

Group D Business and Personal Services.

- Other Business/personal services

Group F Industrial

- Other Industrial

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code

Non-Structural Type(s)

- Sports field
- Parkland
- Trails
- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage
- Transportation Network

Single Family Residential Property

- ATOM Property Count: 117
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$279,752
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #426	5	5	2	6	18
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.2%	0.1%	0.5%	0.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:15
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #426	5.05
City of Kingston	450.40
ATOM Percentage of Total	1.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #426	\$10,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #427 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Non-Structural Type(s)

- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 93
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$329,882
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #427	3	6	5	12	26
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.2%	0.1%	1%	0.2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	10:15
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #427	4.87
City of Kingston	450.40
ATOM Percentage of Total	1.1%

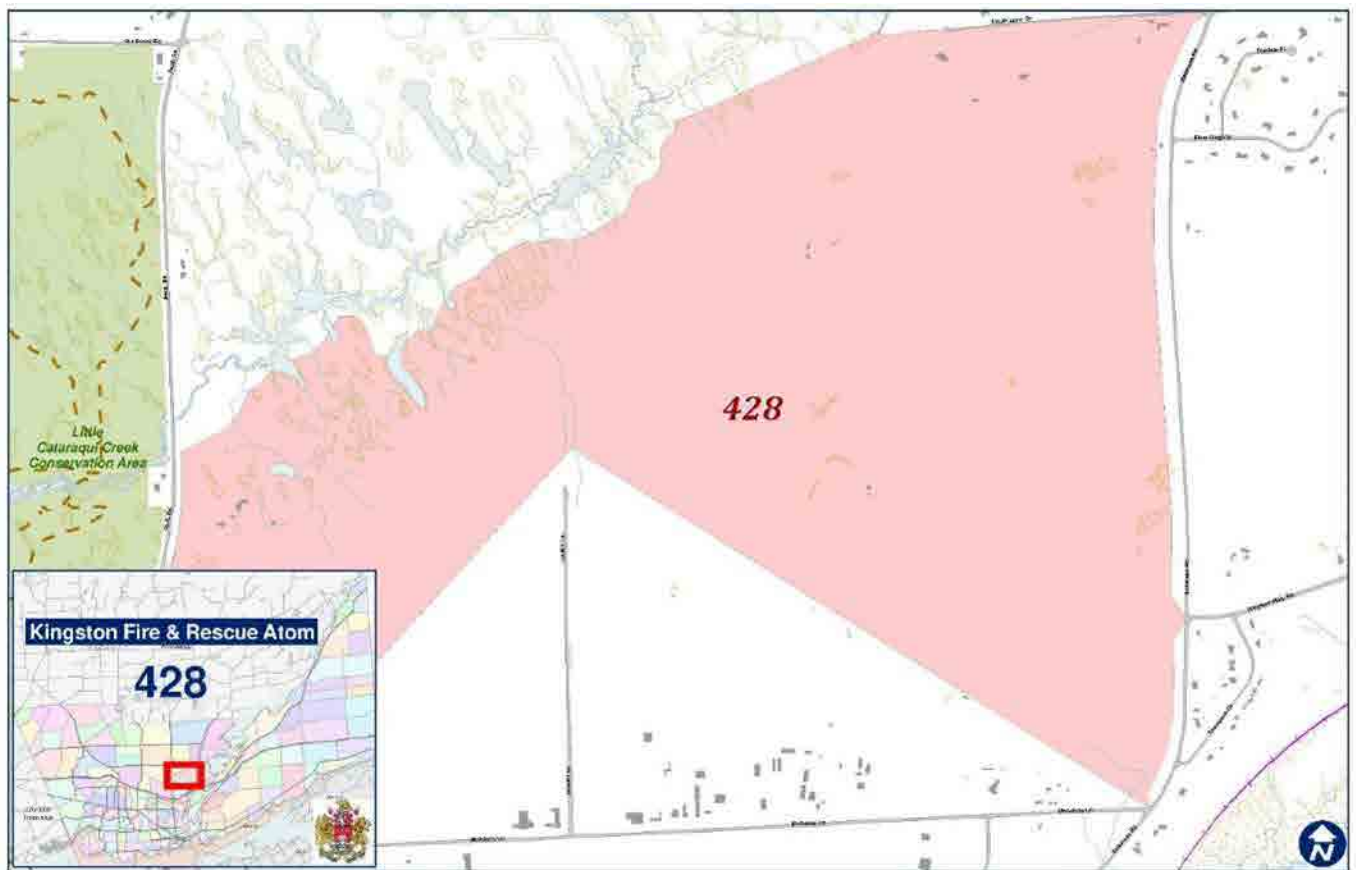
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2017-2019 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM # 427	\$2,500	0	0
City of Kingston	\$15,048,790	12	0
ATOM Percentage of Total	0.00%	0.00%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #428 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Open Pit/Quarry
- Other Miscellaneous property, structure

Non-Structural Type(s)

- Waterways
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Communications tower
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 3
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$568,333
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #428	1	1	2	0	4
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:35
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

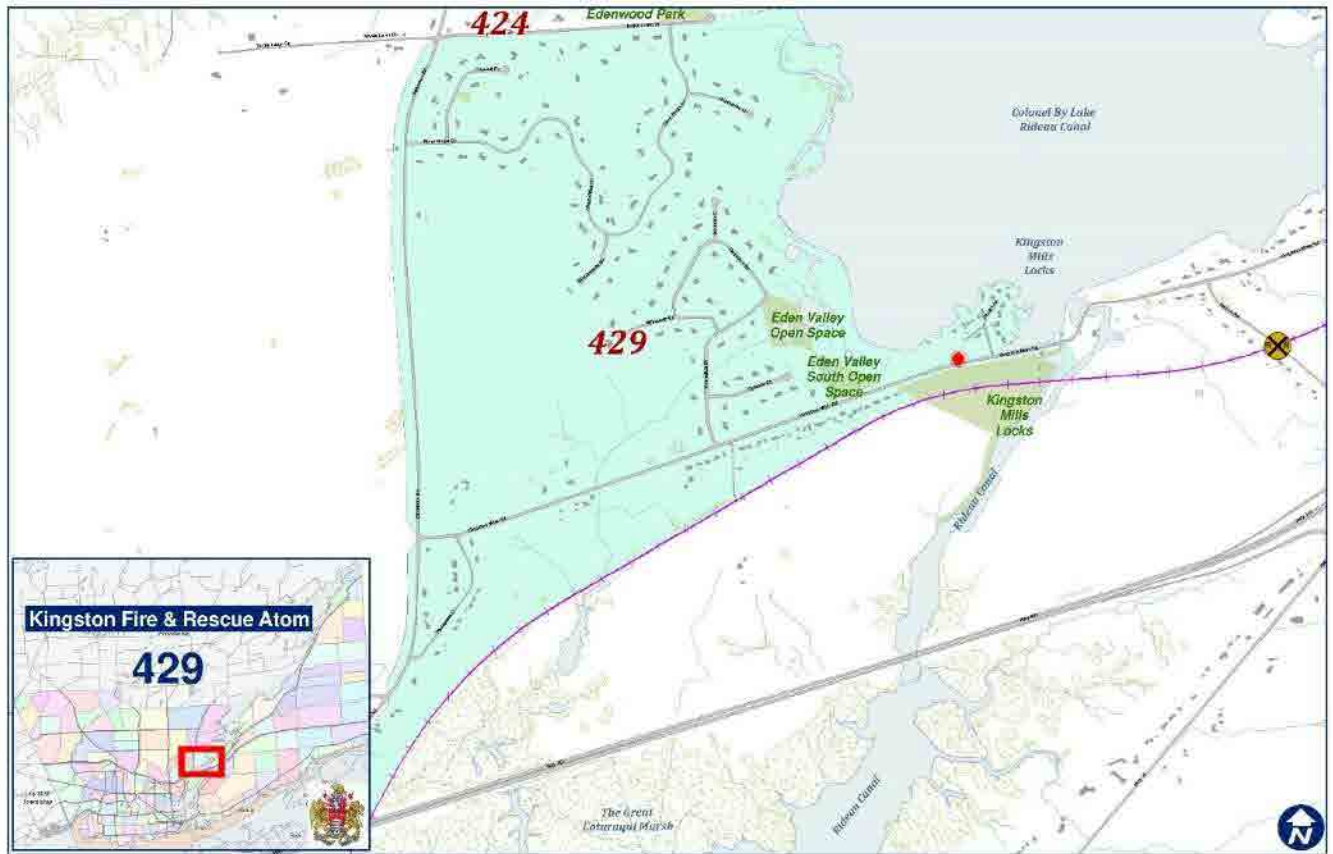
	Square Kilometre
ATOM #428	3.31
City of Kingston	450.40
ATOM Percentage of Total	0.7%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #428	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #429 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential.

Group D Business and Personal Services.

- Other Business/personal services

Structures/Properties not classified by the Ontario Building Code

- Classed under National Farm Building Code
- Other Miscellaneous property, structure

Non-Structural Type(s)

- Waterways
- Trails
- Marina(multiply water craft)
- Brush/Forest

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Railway
- Bridge
- Private Water System
- Electrical distribution 1 (to structures)

Single Family Residential Property

- ATOM Property Count: 157
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$446,038
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #429	9	6	6	4	25
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.5%	0.2%	0.1%	0.3%	0.2%

2019-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:11
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #429	2.70
City of Kingston	450.40
ATOM Percentage of Total	0.6%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #429	\$15,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #430 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Other assembly

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Other mercantile

Non-Structural Type(s)

- Brush/Forest
- Quarry

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 157
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$333,981
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #430	6	7	9	4	26
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.2%	0.2%	0.3%	0.2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	12:50
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

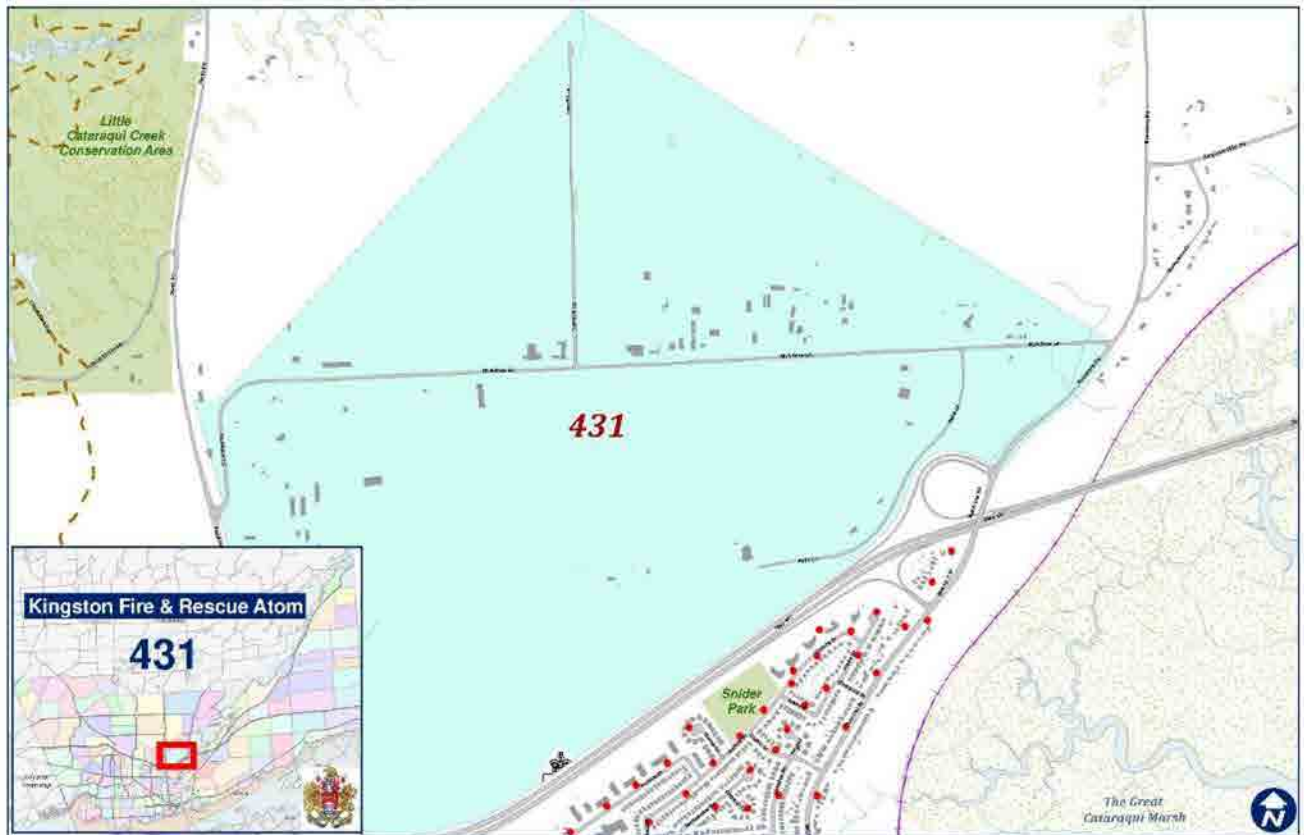
	Square Kilometre
ATOM #430	1.86
City of Kingston	450.40
ATOM Percentage of Total	0.4%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #430	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #431 – Rural – Low Risk



Structural Occupancy Type(s)

Group A Assembly Occupancies

- Production/ Viewing Performing arts
- Recreation/sports facility
- Transportation Facility
- Participating/Viewing open air facilities
- Other assembly

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services.

- Other Business/personal services

Group E Mercantile

- Specialty stores

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Group F Industrial

- Vehicle sales/service
- Mfg/process vehicles parts
- Mfg/process other metal/elect/misc products
- Storage vehicles, parts
- Other Industrial

Structures/Properties not classified by the Ontario Building Code

- Open Pit/quarry
- Miscellaneous structure
- Classed under National Farm Building Code
- Other Miscellaneous property, structure
- Water tower

Non-Structural Type(s)

- Sports field
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Open (outdoor) storage
- Transportation Network

Single Family Residential Property

- ATOM Property Count: 6
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$308,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #431	5	1	1	2	9
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	11:25
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

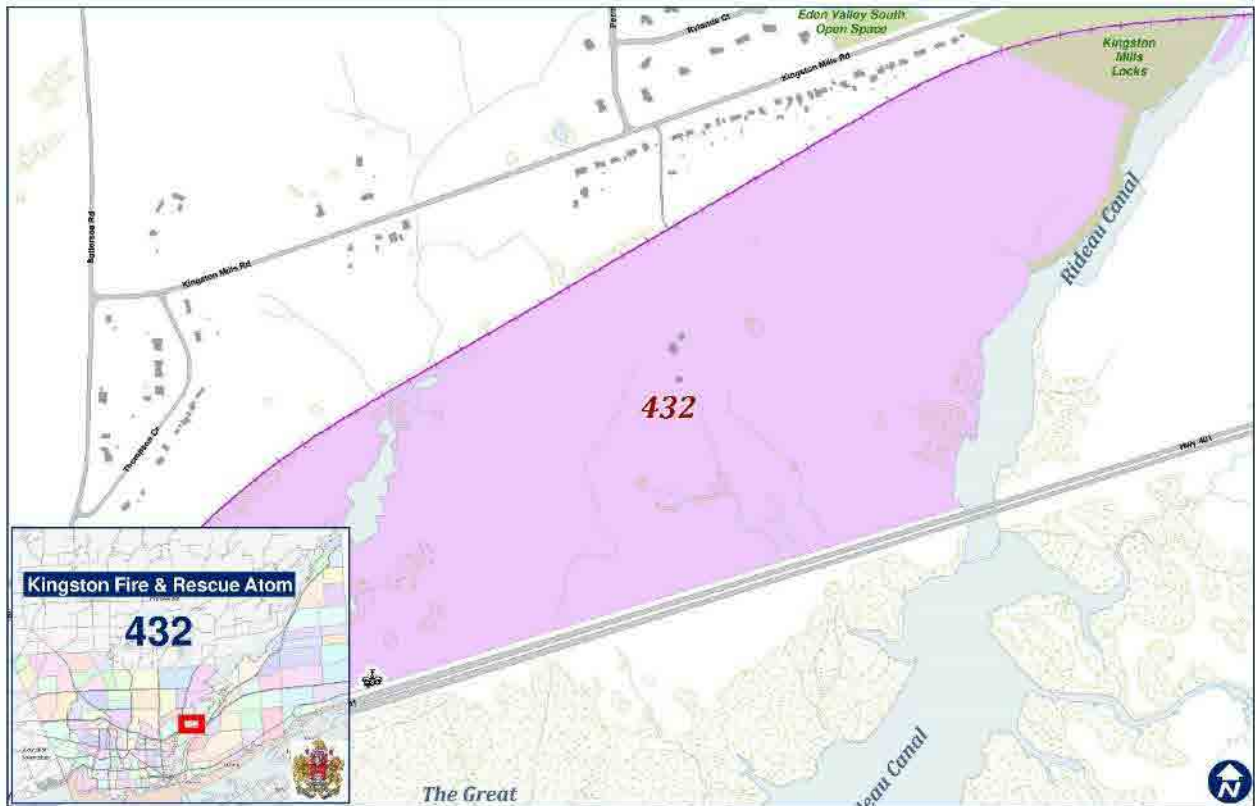
	Square Kilometre
ATOM #431	3.41
City of Kingston	450.40
ATOM Percentage of Total	0.8%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #431	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #432 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Structures/Properties not classified by the Ontario Building Code

- Other Miscellaneous property, structure

Non-Structural Type(s)

- Brush/Forest
- Waterways

Infrastructure System Type(s)

- Roadway
- Bridge
- Private Water System
- Electrical distribution 1 (to structures)
- Railway

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 0
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: NA
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #432	0	0	0	0	0
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	NA
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #432	1.06
City of Kingston	450.40
ATOM Percentage of Total	0.2%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #432	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #433 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services

- Other Business/personal services

Group E Mercantile

- Food/beverage sales
- Other Industrial

Non-Structural Type(s)

NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Municipal Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count: 16
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$306,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #433	0	5	2	1	8
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.2%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	10:32
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #433	0.09
City of Kingston	450.40
ATOM Percentage of Total	0.0%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #433	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #434 – Rural – Low Risk



Structural Occupancy Type(s)

Group D Business and Personal Services

- Other Business/personal service

Non-Structural Type(s)

- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Transportation network (401, Hwy 2, 15, 33, 38)
- Electrical distribution 1 (to structures)
- Communications tower

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 1
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$247,000
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #434	0	0	2	0	2
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.1%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	4:56
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #434	0.06
City of Kingston	450.40
ATOM Percentage of Total	0.0%

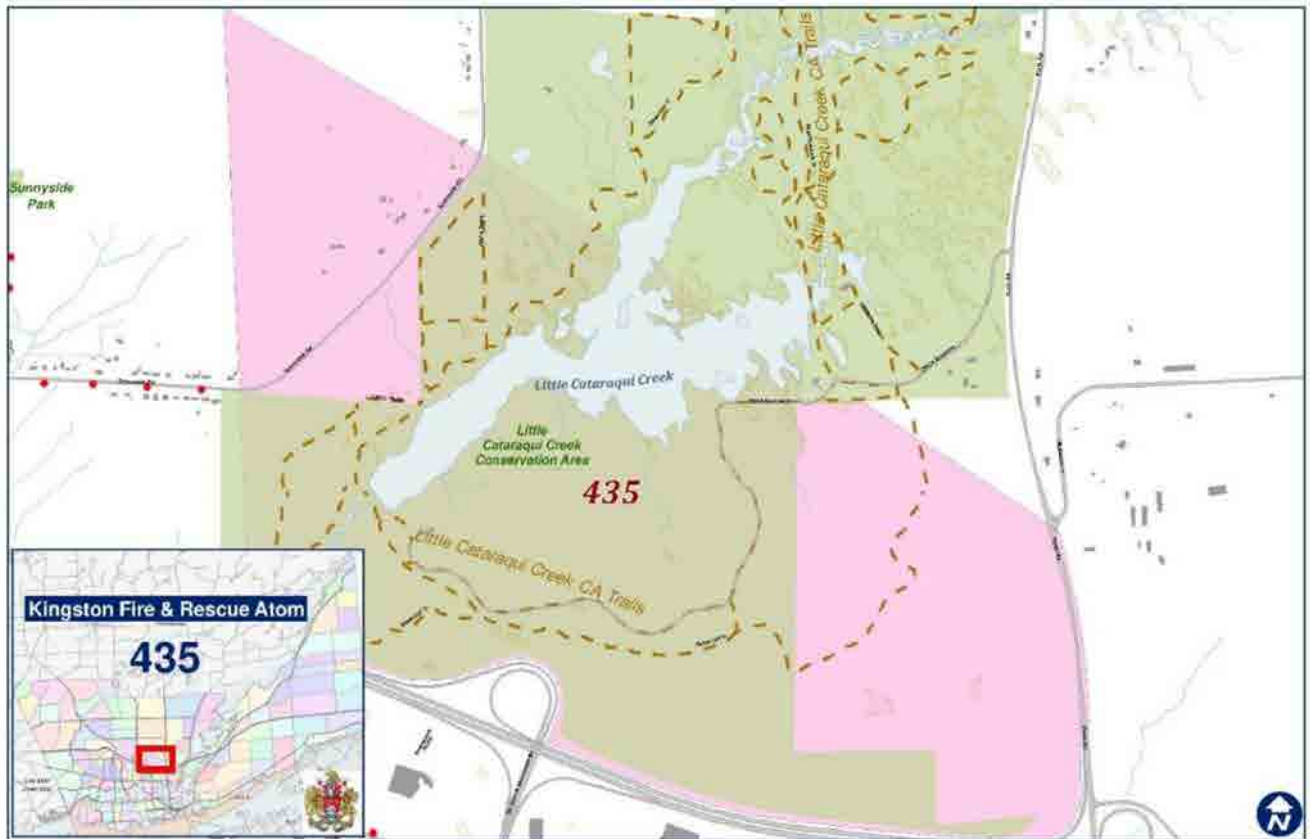
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #434	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #435 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Non-Structural Type(s)

- Waterways
- Conservation area
- Trails
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Private Water System
- Electrical distribution 1 (to structures)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 5
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$329,800
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #435	2	0	1	2	5
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.1%	0.1%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	12:41
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #435	3.06
City of Kingston	450.40
ATOM Percentage of Total	0.7%

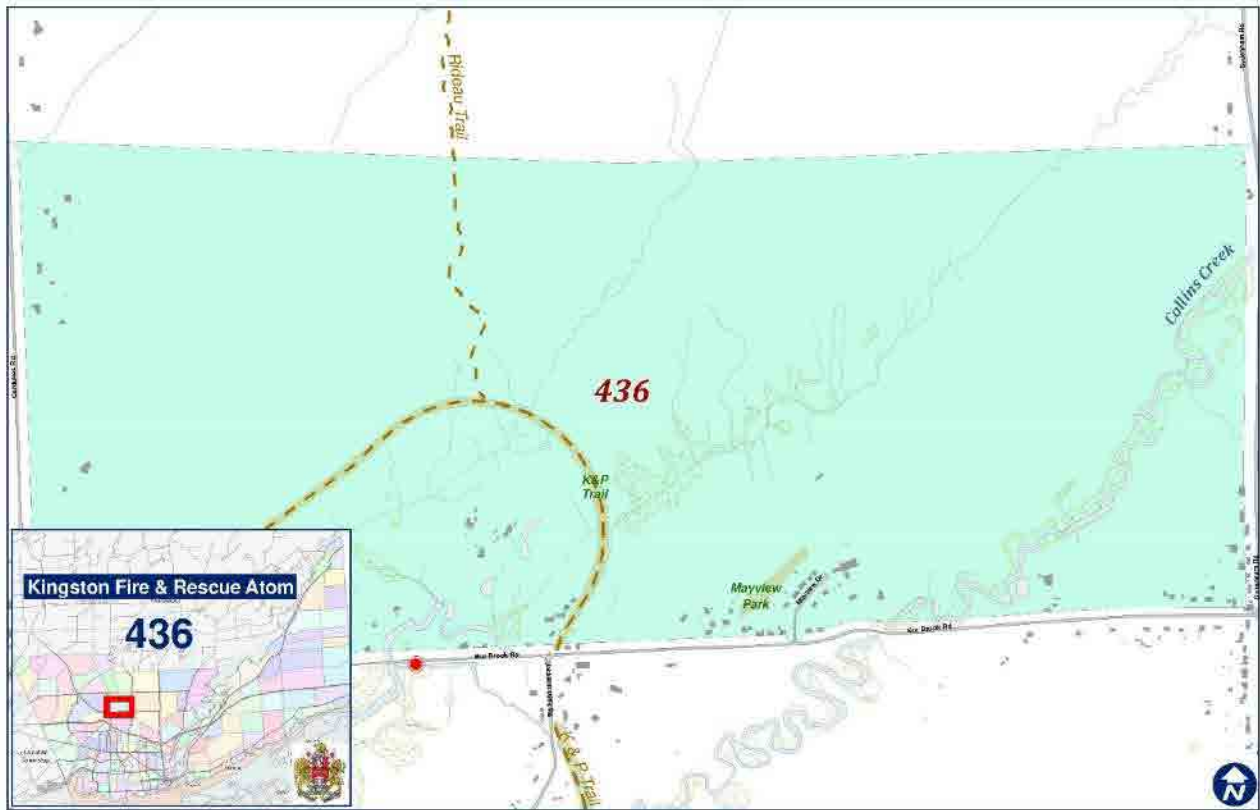
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #435	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #436 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group D Business and Personal Services

- Other Business/personal services

Group E Mercantile

- Other mercantile

Structures/Properties not classified by the Ontario Building Code

- Other Miscellaneous property, structure

Non-Structural Type(s)

- Parkland
- Brush/Forest
- Quarry

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Infrastructure System Type(s)

- Roadway
- Gas Pipeline
- Municipal Water System
- Private Water System
- Electrical distribution 1 (to structures)
- Open (outdoor) storage

Single Family Residential Property

- ATOM Property Count:35
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$295,057
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #436	1	0	0	0	1
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.0%	0.0%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:38
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Land Area

	Square Kilometre
ATOM #436	2.94
City of Kingston	450.40
ATOM Percentage of Total	0.7%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #436	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #437 – Rural – Low Risk



Structural Occupancy Type(s)

Group C Residential

- Detached/semi/attached residential

Group F Industrial

- Utilities – Electrical
- Other Industrial

Non-Structural Type(s)

- Waterways
- Brush/Forest

Infrastructure System Type(s)

- Roadway
- Private Water System
- Electrical distribution 1 (to structures)
- Electrical distribution 2 (compounds and heavy transmission)
- Power generating source (solar farm, RMC Reactor, Large Generators)

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Single Family Residential Property

- ATOM Property Count: 3
- City of Kingston Property Count: 28,630

- ATOM Average Property Value: \$376,333
- City of Kingston Average Property Value: \$285,670

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	Y	Y	Y	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #437	0	0	0	0	0
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.0%	0.0%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	NA
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #437	3.04
City of Kingston	450.40
ATOM Percentage of Total	0.7%

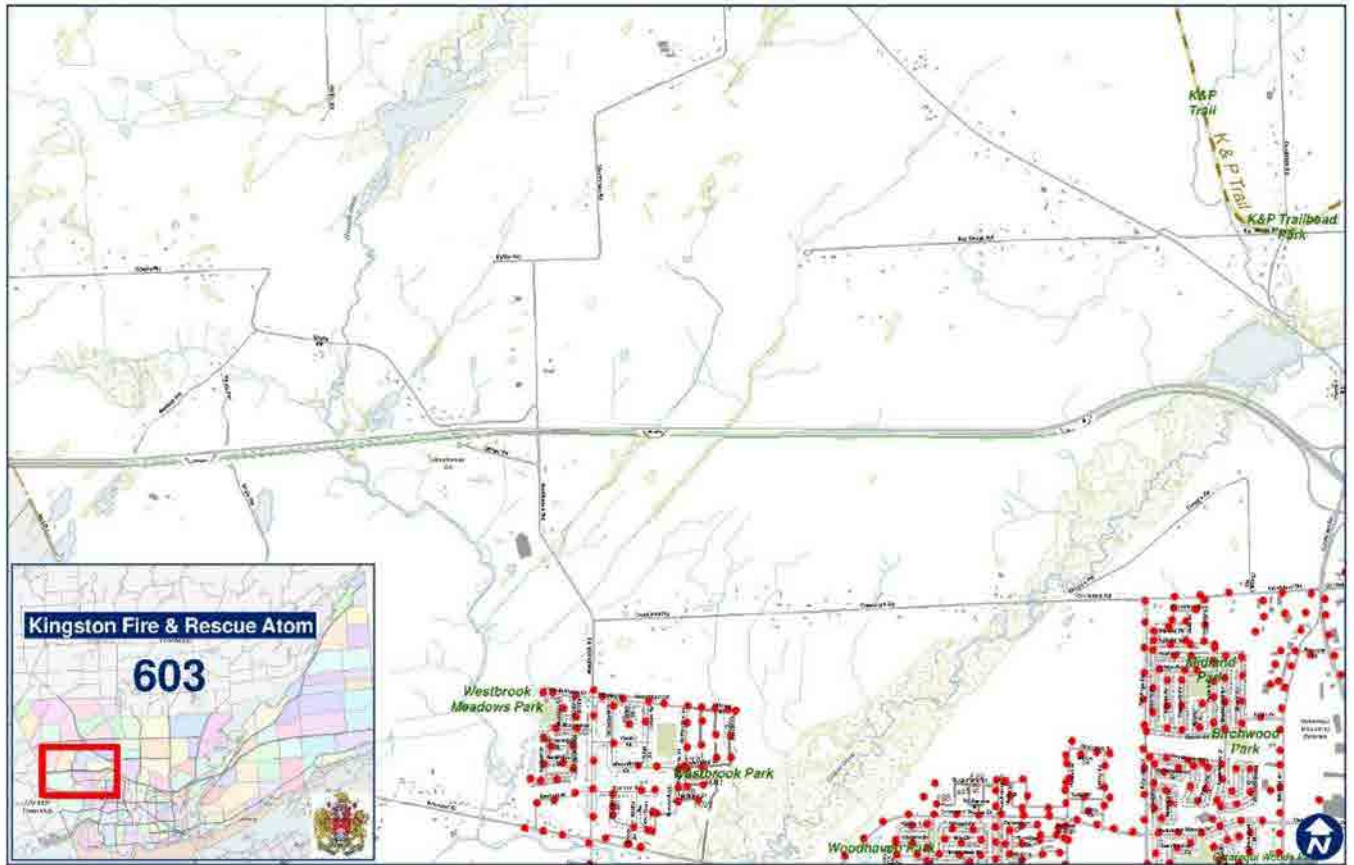
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #437	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #603 – Rural – Low Risk



Structural Occupancy Type(s)

NA

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Transportation network (401, Hwy 2, 15, 33, 38)

Single Family Residential Property

NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #603	4	2	7	21	34
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.1%	0.1%	1.5%	0.3%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	16:56
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

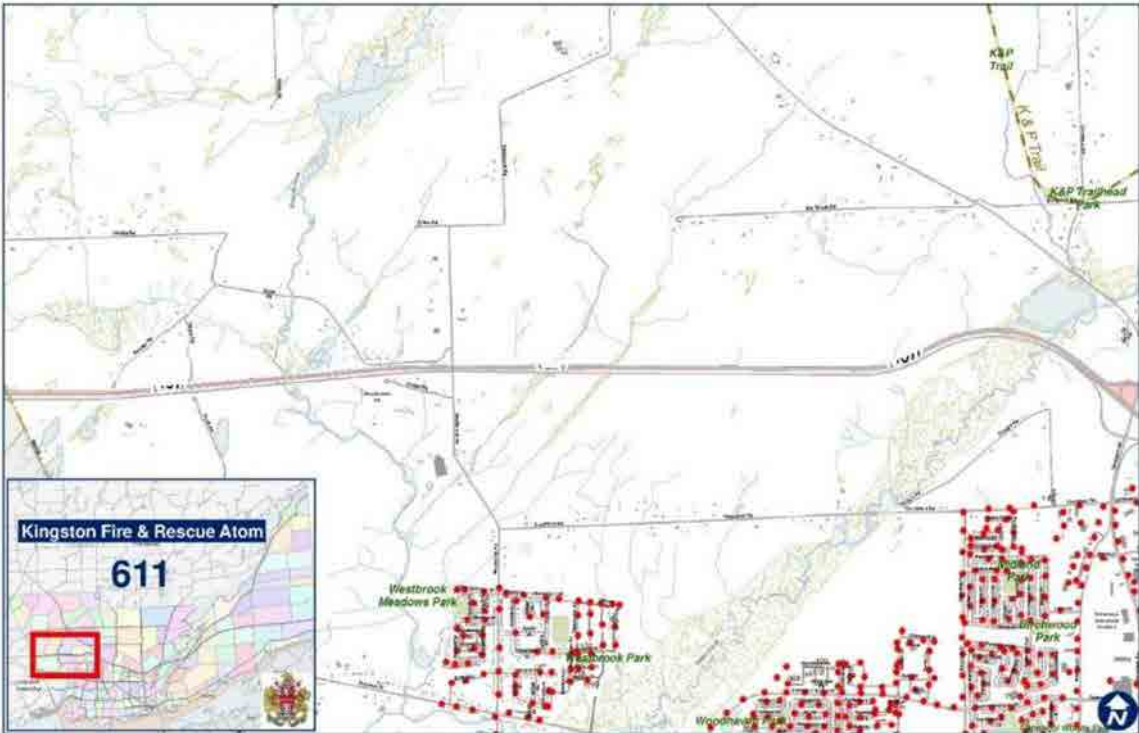
	Square Kilometre
ATOM #603	0.26
City of Kingston	450.40
ATOM Percentage of Total	0.1%

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #603	\$85,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #611 – Rural – Low Risk



Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structural Occupancy Type(s)

NA

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Transportation network (401, Hwy 2, 15, 33, 38)

Single Family Residential Property

NA

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #611	4	5	5	31	45
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.2%	0.1%	2%	0.5%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	14:20
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM # 611	4.29
City of Kingston	450.40
ATOM Percentage of Total	1.0%

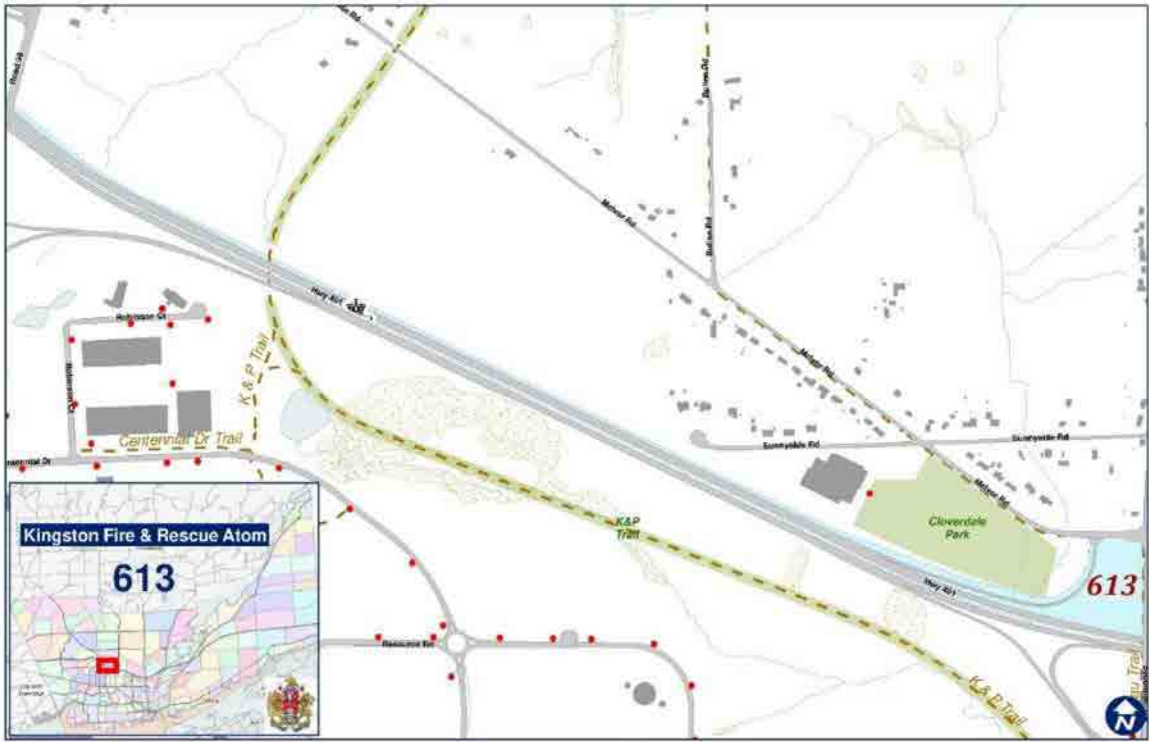
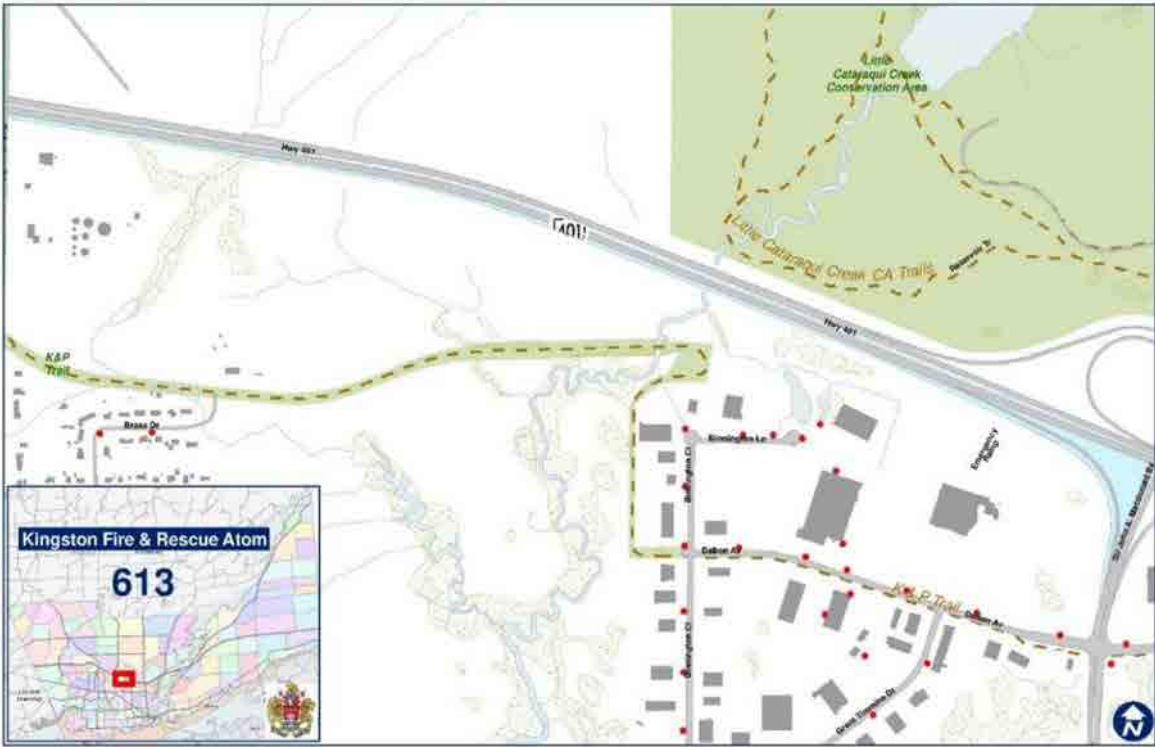
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #611	\$2,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #613 – Rural – Low Risk



Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structural Occupancy Type(s)

NA

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Transportation network (401, Hwy 2, 15, 33, 38)

Single Family Residential Property

NA

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #613	1	1	3	15	20
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.1%	0.1%	1%	0.2%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	11:35
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #613	0.08
City of Kingston	450.40
ATOM Percentage of Total	0.0%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #613	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #615 – Rural – Low Risk



Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structural Occupancy Type(s)

NA

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Transportation network (401, Hwy 2, 15, 33, 38)

Single Family Residential Property

NA

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #615	0	0	0	6	6
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.0%	0.0%	0.0%	0.5%	0.1%

2017-2019 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	9:25
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #615	0.10
City of Kingston	450.40
ATOM Percentage of Total	0.0%

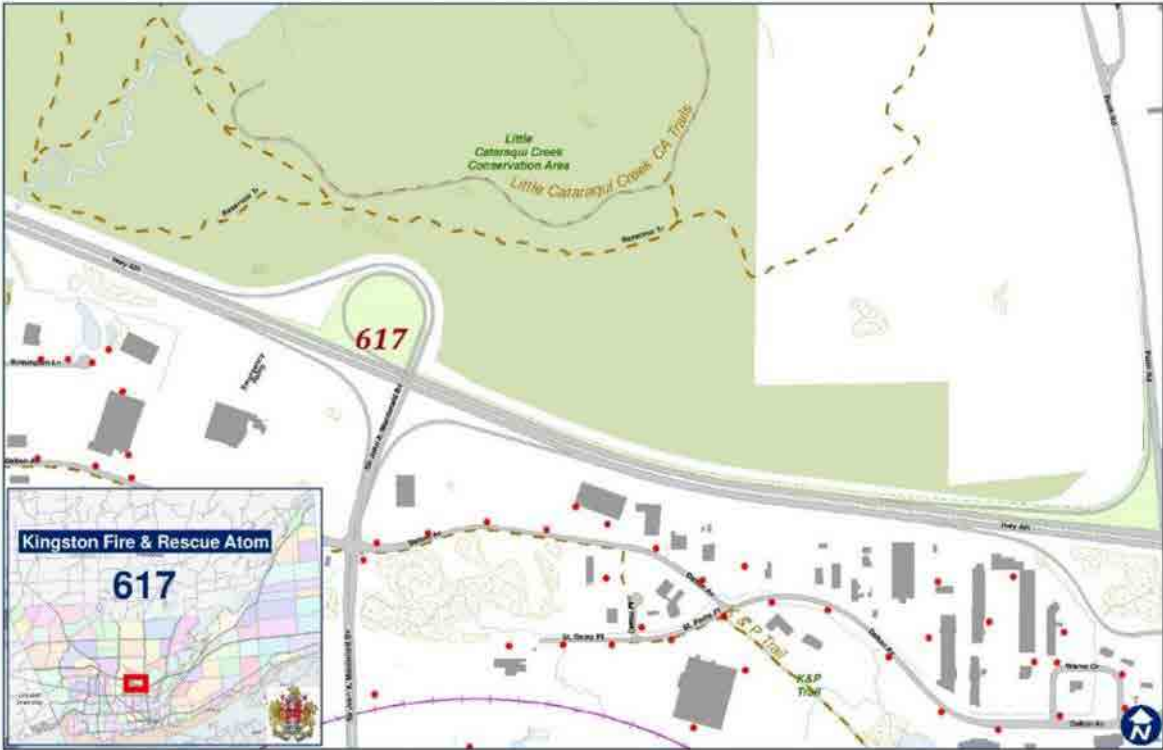
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #615	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #617 – Rural – Low Risk



Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structural Occupancy Type(s)

NA

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Transportation network (401, Hwy 2, 15, 33, 38)

Single Family Residential Property

NA

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #617	6	1	5	21	33
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.1%	0.1%	1.5%	0.5%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	9:30
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #617	0.10
City of Kingston	450.40
ATOM Percentage of Total	0.0%

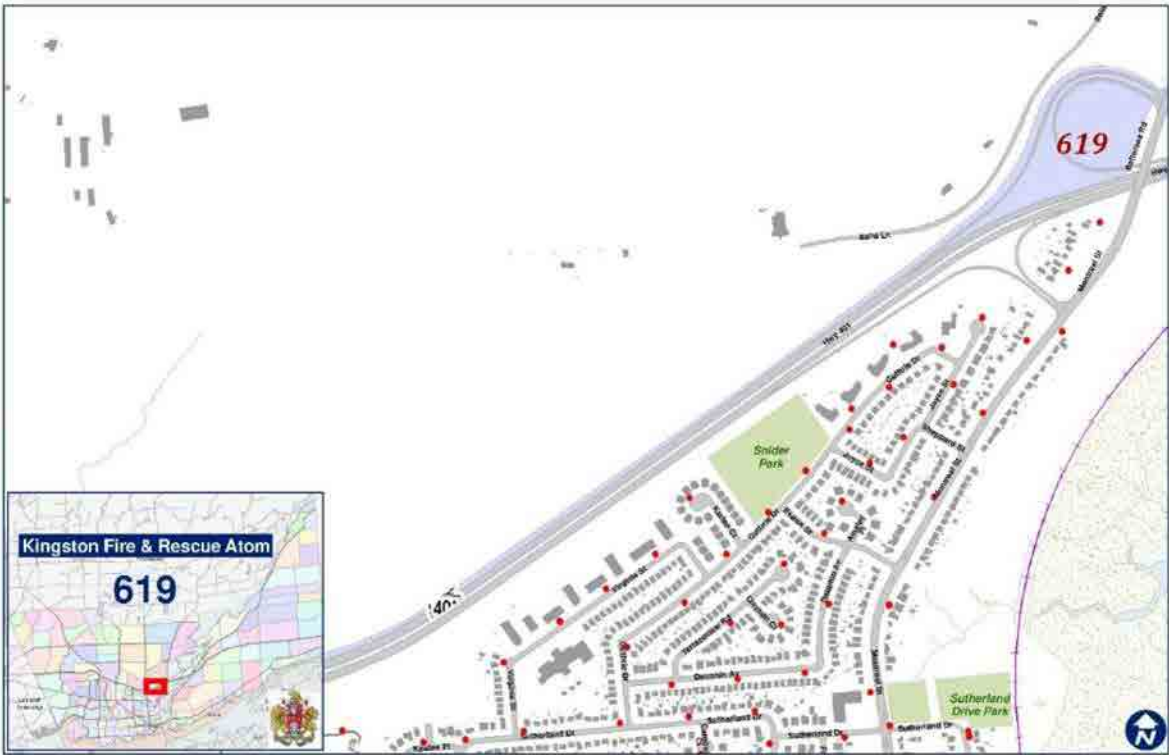
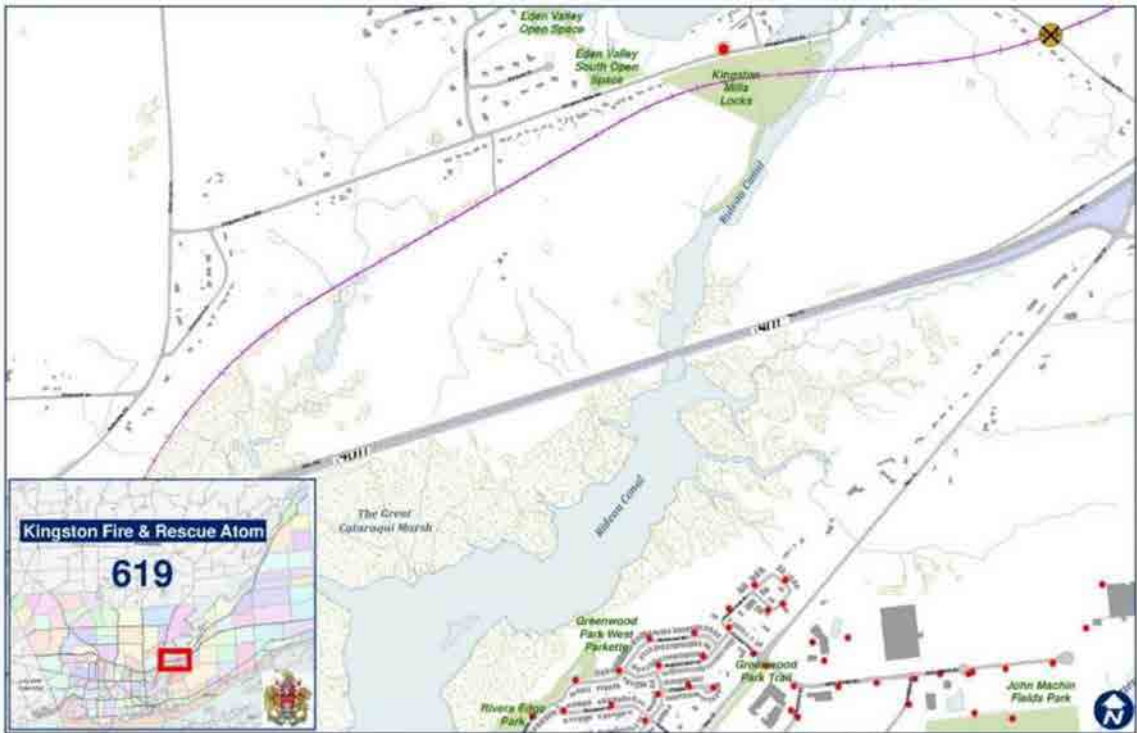
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #617	\$15,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.1%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #619 – Rural – Low Risk



Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structural Occupancy Type(s)

NA

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Transportation network (401, Hwy 2, 15, 33, 38)

Single Family Residential Property

NA

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #619	4	0	2	38	44
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.2%	0.0%	0.1%	3%	0.5%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	11:53
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #619	0.15
City of Kingston	450.40
ATOM Percentage of Total	0.0%

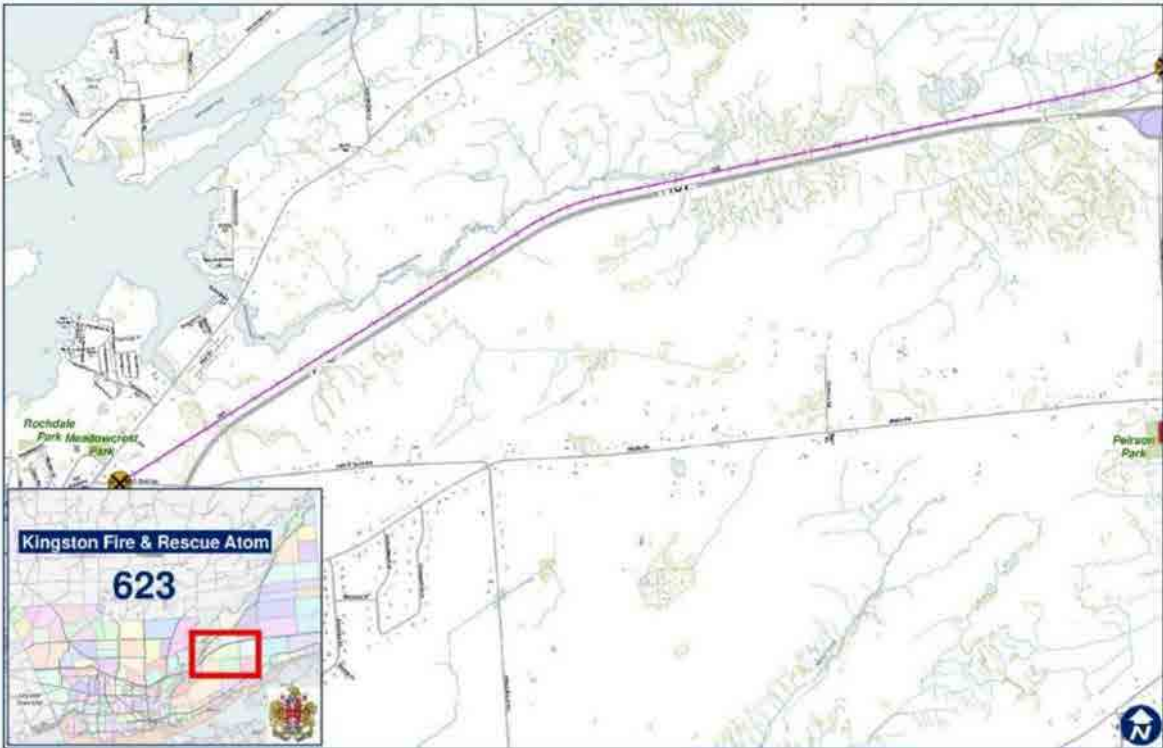
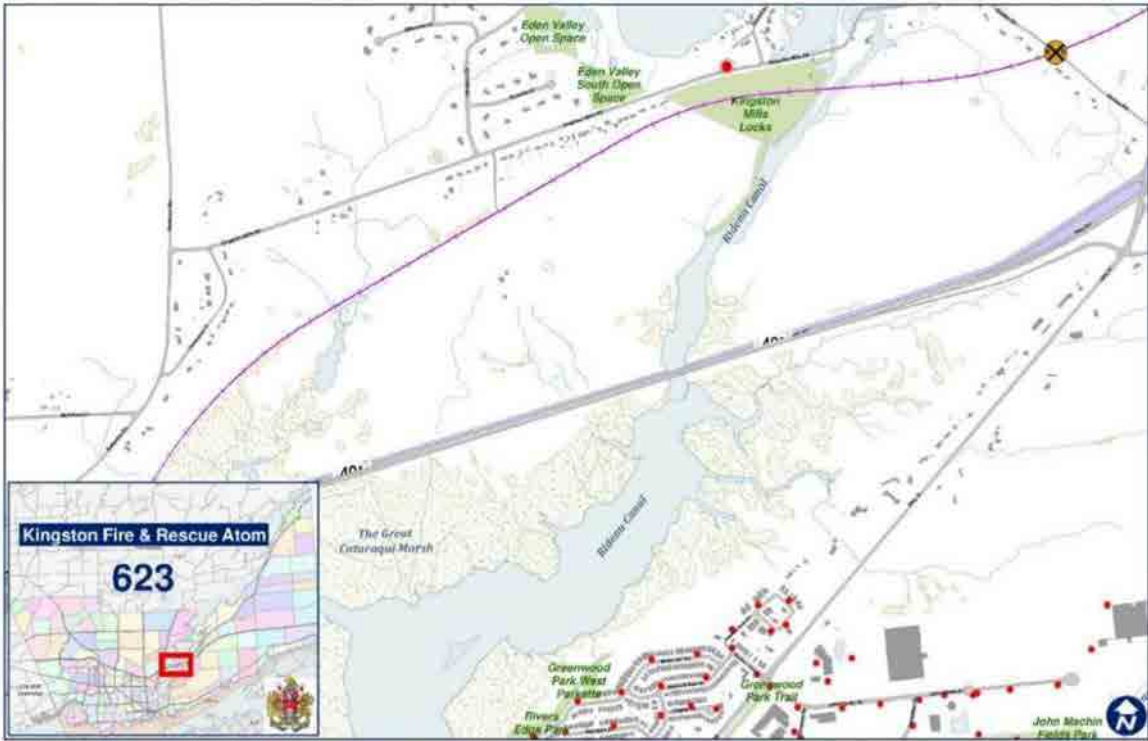
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #619	\$60,500	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.5%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #623 – Rural – Low Risk



Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structural Occupancy Type(s)

NA

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Transportation network (401, Hwy 2, 15, 33, 38)

Single Family Residential Property

NA

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #623	6	2	4	22	34
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.1%	0.1%	1.5%	0.3%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:16
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #623	0.25
City of Kingston	450.40
ATOM Percentage of Total	0.1%

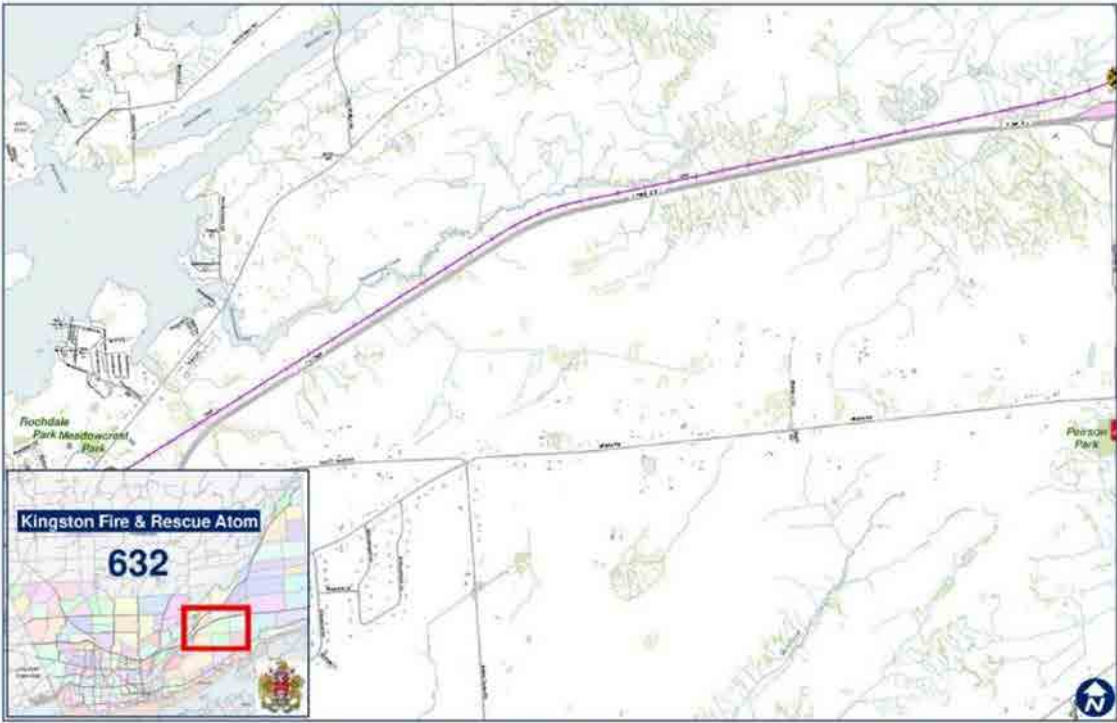
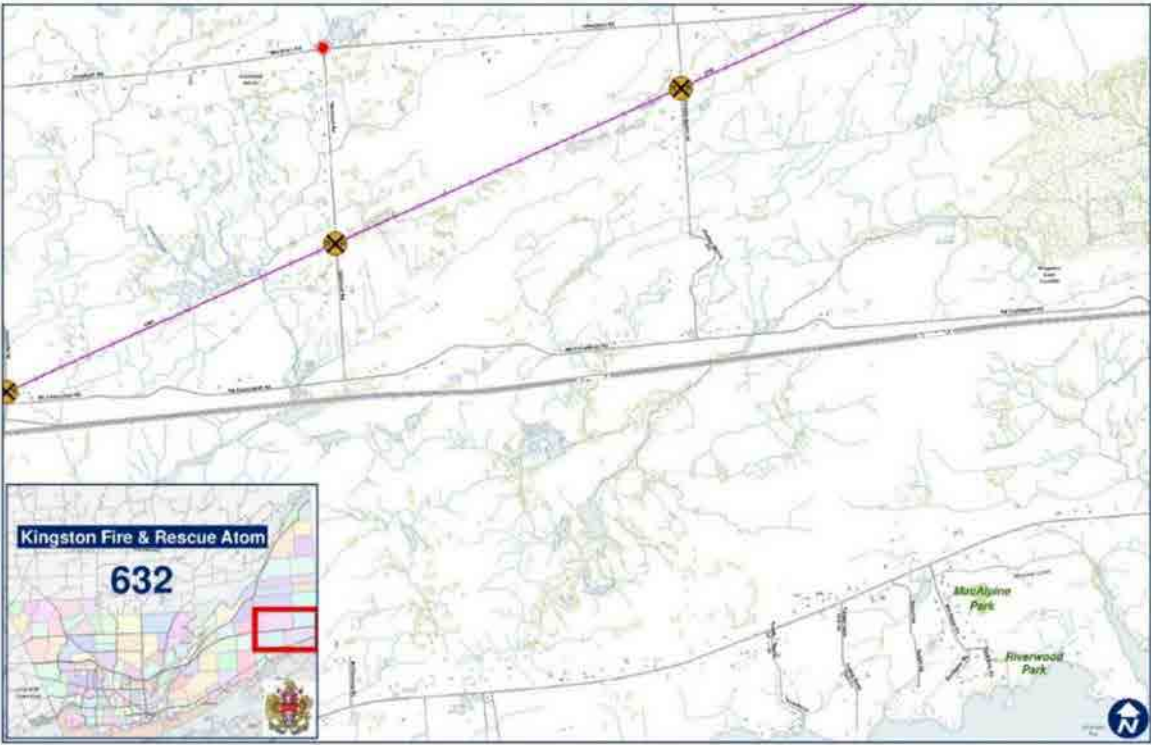
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #623	\$512,000	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #632 – Rural – Low Risk



Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structural Occupancy Type(s)

NA

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Transportation network (401, Hwy 2, 15, 33, 38)

Single Family Residential Property

NA

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #632	7	2	2	21	32
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.3%	0.1%	0.1%	1.5%	0.3%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	13:23
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #632	0.23
City of Kingston	450.40
ATOM Percentage of Total	0.1%

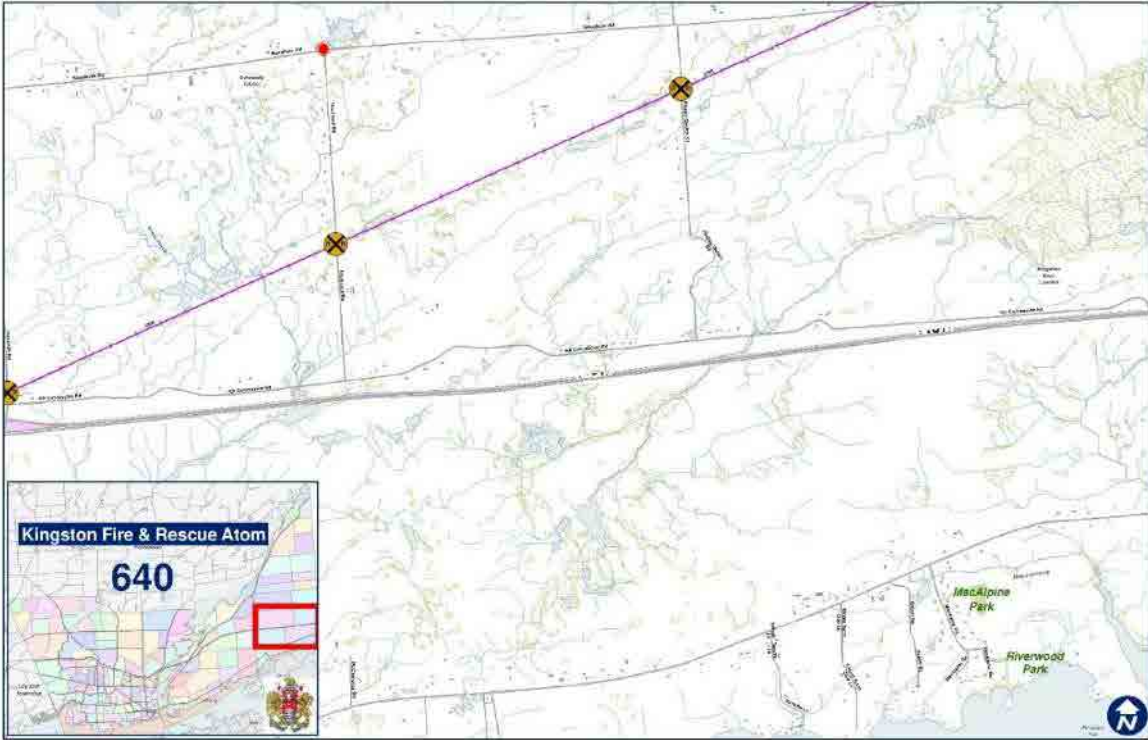
Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #632	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

ATOM #640 – Rural – Low Risk



Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

Structural Occupancy Type(s)

NA

Non-Structural Type(s)

NA

Infrastructure System Type(s)

- Transportation network (401, Hwy 2, 15, 33, 38)

Single Family Residential Property

NA

Hazard Classification	Fire	Tech Rescue	Medical	Marine	Hazmat	Wildland	Aircraft
Yes/No	Y	Y	Y	N	Y	N	N

2018-2020 Incident Activity Type

	Fire	Medical	Other	Rescue	Total
ATOM #640	1	0	1	4	6
City of Kingston	2,187	3210	5675	1394	12,466
ATOM Percentage of Total Incidents	0.1%	0.0%	0.1%	0.3%	0.1%

2018-2020 Response Time

ATOM First on Scene Response Time Baseline: 80th Percentile	16:28
Kingston Fire & Rescue Rural Standard Response Benchmark: 80th Percentile	15:30

Land Area

	Square Kilometre
ATOM #640	0.19
City of Kingston	450.40
ATOM Percentage of Total	0.0%

Kingston Fire & Rescue Geographic Planning Zones (ATOM) Risk Assessment

2018-2020 Fire Loss and Injury

	Property Loss	Civilian Injury	Civilian Fatality
ATOM #640	\$0	0	0
City of Kingston	\$11,033,601	15	0
ATOM Percentage of Total	0.0%	0.0%	NA