

SUBJECT: Updated inherent risk assessment methodology

TO: Audit Committee

FROM: City Auditor's Office

Report Number: CA-09-19

Wards Affected: Not Applicable

File Numbers: 430-01

Date to Committee: June 5, 2019

Date to Council: June 17, 2019

Recommendation:

Approve the proposed amendments to the inherent risk assessment methodology as outlined in Appendix B of city auditor's report CA-09-19.

Purpose:

Establish new or revised policy or service standard.

An Engaging City

Good Governance

Background and Discussion:

Audit Unit/Audit Universe

An audit unit is a part of the organization that is exposed to sufficient risk(s) that control, including audit, is appropriate. Audit units can be defined according to: business unit, service line, legal entity, regulatory requirement, processes, programs, functions, or systems; a key risk or key control; and/or a combination of all or most of the above.

The total inventory of audit units is referred to as the audit universe. The audit universe is the basis of audit planning. The current audit universe includes all services and subservices.

Inherent Risk Assessment

The International Standards for the Professional Practice of Internal Auditing require a risk-based audit plan to assist management in ensuring significant risks are addressed. The risk assessment also supports effective use of audit resources through a targeted audit work plan.

The risk assessment methodology supports consistent measurement of inherent risk as all risk factors, criteria, attributes, and weightings are used to assess each audit unit. Each year, the audit unit's inherent risk profile is reviewed and updated by the manager/service owner. For their audit unit, the manager/service owner is asked to reflect on each criterion and select the attribute which best describes the environment or activities in which they operate. Managers/service owners are encouraged to engage supervisors and other staff in the review and update.

Inherent risk assessment is part art, part science. The art involves the judgment in determining both the relevant attribute for each criterion and a ranking for each factor. The science involves the determination of the overall inherent risk score. This score is determined through the translation of each factor's risk ranking into a pre-determined number, when multiplied by the factor's weighting, results in a score for that factor. The sum of all factor scores is the overall inherent risk score.

The inherent risk assessment methodology was established in 2009 with updates applied in 2011 and 2015.

Strategy/process

It is good practice to periodically review the audit units and risk methodologies.

Audit Universe

The current audit universe includes all services and sub-services. A review of the services/sub-services to organizational activities to corporate functions to major projects concluded that corporate functions should be included in the audit universe. Inclusion of these functions will promote a comprehensive assessment of risks and controls and offer more value to City because of breadth of coverage. Examples of corporate functions include Accounts Payable/Purchasing Card Program, Asset Management, Grant Administration, Fraud Management, Information Management, Physical Security, Privacy, Procurement, and Project Management, to name a few.

In some cases, current sub-services are, in fact, corporate functions. In these cases, risk assessment of services/sub-services will be adjusted to reduce likelihood of double counting. E.g. risk assessment of Financial Management – Transactional Services will

reflect investments and charitable donations only as Accounts Payable/Purchasing Card Program, Accounts Receivable, and GL Transactions & Accounts will be assessed as corporate functions. For information and reference, a list of the audit universe including corporate functions is included in Appendix A.

Inherent Risk Assessment

Given the last review of the inherent risk assessment was in 2015, and the decision to include corporate functions in the audit universe, this drives the need to review the risk assessment factors, criteria and attributes to ensure relevance.

Research of other municipalities and public sector agency risk assessment methodologies was performed. As well, review of publications and material from the Institute of Internal Auditors was conducted to determine latest practices.

The revisions to both the audit universe and the inherent risk assessment methodology were reviewed with a sample of managers and the Burlington Leadership Team to assess relevancy, understanding and applicability.

Summary of Proposed Amendments

Major changes to the methodology affect the factors, criteria, attributes and weighting.

1. Factor and weighting

Factors are the major categories used to characterize inherent risk. One new factor was added, and 2 factors were eliminated.

Fac	Factor			
Current	Proposed	Current	Proposed	
Complexity of Operations	Complexity of Service	30%	No change	
	Delivery			
Materiality & Susceptibility to	No change	25%	No change	
Error/Fraud				
Public Exposure	Exposure to Scrutiny	15%	10%	
Degree of Change (over last 12	Degree of Change	20%	No change	
months)	(over last 12 months and expected			
	within next 6 months)			
Financial Loss/Cost	Eliminate	5%	0%	
Non-Compliance	Eliminate	5%	0%	
	People Participation (NEW)	0%	15%	

2. Criteria

Criterion are used to give guidance as to what the factor means; how the factor is to be interpreted. Changes to the criteria are identified in **bold italics** and Text shading indicates new criterion.

Factor	Crit	eria
(Weight)	Current	Proposed
Complexity of Service Delivery (30%)	 Nature of technology/ equipment used in service delivery (e.g. sophisticated vs. simple) 	Nature of technology/ equipment used in service delivery (e.g. sophisticated vs. simple)
	Nature of process (e.g. customized vs. routine)	Degree of customization of process (e.g. customized vs. standardized)
	Staff involved in service delivery	Number of people involved in service delivery
	Nature of service delivery (e.g. decentralized vs. centralized)	 Service delivery sites (e.g. multi-site/counter vs. single site/counter)
		 Level of exposure to hazardous activity
Materiality & Susceptibility to Error/Fraud	Gross revenue (excluding recovery from capital)	Gross revenue (excluding recovery from capital)
(25%)	Gross operating expenditures (including human resource costs and excluding one-time project costs)	Gross operating expenditures (including human resource costs and excluding one-time project costs)
	Transparency/openness to scrutiny	Transparency/openness to scrutiny
	· Staffing levels	· Extent of staff complement vacancy
	 Nature of Assets Used in Service Delivery (i.e. tangible/intangible, convertibility to cash) 	 Nature of Assets Used in Service Delivery (i.e. tangible/intangible, convertibility to cash)

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Factor	Criteria				
(Weight)	Current	Proposed			
	 Involvement in known risk areas of misconduct Dollar value of daily cash deposits 	 Involvement in known risk areas of misconduct Dollar value of daily cash deposits 			
Exposure to Scrutiny (10%)	· Public/customer reaction	 Degree of public/external customer involvement Degree of internal customer involvement History of media attention (e.g. newspapers, blogs, op eds, etc.) Employee Base Involved 			
Degree of Change (20%) (over last 12 months and expected within next 6 months)	 Staff turnover (due to reasons such as retirement, leaves of absence, job rotations, etc.) Changes to service strategy and/or process (manual and/or automated) 	 Staff Turnover - Moved to People Participation factor Changes to service and/or processes Technology/equipment change 			
People Participation (15%)		 Staff turnover (due to reasons such as retirement, leaves of absence, job rotations, etc.) Staff performing "must do" activity(ies) Difficulty in filling positions (beyond normal recruitment timing) 			

Factor	Criteria				
(Weight)	Current Proposed				
		Difficulty in attracting			
		candidates			

3. Attributes

Attributes are statements to describe certain features or characteristics of the environment. Each attribute is aligned to a risk ranking and each risk ranking is assigned a pre-determined number. New attributes established for each of the 9 new criteria are provided in the following tables categorized by the factor and criterion to which each relates.

Complexity of Service Delivery:

- Level of exposure to hazardous activity

Risk Ranking (Pre-determined Number)						
Very High	High	High Moderate Low				
(100)	(75)	(50)	(25)	(1)		
Work involves	Work involves	Work involves	Work involves	Work involves		
daily exposure	frequent	repeated	daily exposure	limited		
to high hazard	exposure to	exposure to	to low hazard	exposure to		
activity (e.g.	high hazard	manual labour	activity (e.g.	low hazard		
use of heavy	activity (e.g.	(e.g. lifting,	use of	activity (e.g.		
machinery/	use of heavy	pushing,	computers,	use of		
small	machinery/ pulling, digging,		desk work,	computers,		
equipment,	small	etc.)	repetitive	desk work,		
working at	equipment,		movement,	repetitive		
heights,	working at		etc.)	movement,		
chemical	heights,			etc.)		
handling,	chemical					
working in	handling,					
traffic, etc.)	working in					
	traffic, etc.)					

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Exposure to Scrutiny:

- Degree of public/external customer involvement

Risk Ranking (Pre-determined Number)							
Very High High Moderate Low Very Low							
(100)	(75)	(50)	(25)	(1)			
Everyday direct	Frequent direct	Periodic direct	Infrequent	Rare direct			
involvement of	Ivement of involvement of involvement of		direct	involvement of			
public/external	public/external	public/external	involvement of	public/external			
customers	customers	customers	public/external	customers			
			customers				

- Degree of internal customer involvement

Risk Ranking (Pre-determined Number)					
Very High (100)	High (75)	Low (25)	Very Low (1)		
Everyday direct	Frequent direct	(50) Periodic direct	Infrequent	Rare direct	
involvement of	involvement of	involvement of	direct	involvement of	
internal	internal	internal	involvement of	internal	
customers	customers	customers	internal	customers	
			customers		

- History of media attention (e.g. newspapers, blogs, op eds, etc.)

Risk Ranking (Pre-determined Number)								
Very High High Moderate Low Very Low								
(100)	(75)	(25)	(1)					
Subject of	Subject of	Subject of	Subject of	Never been				
regular and	frequent media	minimal or	infrequent	subject of				
sustained	attention	short-lived	media attention	media attention				
media attention		media attention						

- Employee Base Involved

Risk Ranking (Pre-determined Number)					
Very High (100)	Low (25)	Very Low (1)			
Every employee involved	(75) More than three-quarters of employees involved	(50) Half of employees involved	More than one- quarter of employees involved	Less than one- quarter or one group of employees involved	

Degree of Change:

Technology/equipment change

Risk Ranking (Pre-determined Number)								
Very High High Moderate Low Very Low								
(100)	(75)	(50)	(25)	(1)				
Implemented	Major upgrade	Major upgrade	Minor upgrade	No changes to				
new software/	or update to <u>all</u>	or update to	or update to all	software/				
hardware/	software/	some software/	or some	hardware/				
equipment to	hardware/	hardware/	software/	equipment to				
support service	equipment to	equipment to	hardware/	support service				
	support service		equipment to					
			support service					

People Participation:

- Staff performing "must do" activity(ies)

Risk Ranking (Pre-determined Number)									
Very High High Moderate Low Very Low									
(100)	(75)	(50)	(25)	(1)					
Only one	2 people know	3 people know	4 people know	5 or more					
person knows	how "must do"	how "must do"	how "must do"	people know					
how "must do"	activity(ies) are	activity(ies) are	activity(ies) are	how "must do"					
activity(ies) are	performed	performed	performed	activity(ies) are					
performed. i.e.				performed					
OR key person									
dependency									

_	Difficulty	in	filling	positions	(be	ond/	normal	recruitment	timing)

Risk Ranking (Pre-determined Number)							
Very High	High	High Moderate Low Very Low					
(100)	(75)	(50)	(25)	(1)			
Takes 8 or	Takes 6 – 7	Takes 4 – 5	Takes 2 – 3	Takes less			
more months	months longer	months longer	months longer	than 1 month			
longer				longer			

Difficulty in attracting candidates

Risk Ranking (Pre-determined Number)						
Very High	High	Moderate	Low	Very Low		
(100)	(75)	(50)	(25)	(1)		
Had to go back	Had to go back	Had to go back	Had to go back	Filled position		
to market > 2	to market 2	to market 1	to market 1	from original		
times after	times after	time after	time after	recruitment OR		
original	original	original	original	no offers		
recruitment OR	recruitment OR	recruitment	recruitment OR	declined		
> 2 offers	2 offers made	AND 1 offer	1 offer made			
made and	and declined	made and	and declined			
declined		declined				

A complete version of the updated inherent risk assessment methodology is available in Appendix B.

Next Steps

The updated inherent risk assessment will be applied to each audit unit to create an inherent risk profile and each audit unit risk profile will be updated annually. As an example, Internal Audit's risk profile (contained in Appendix C) demonstrates how the inherent risk assessment is applied.

An annual work plan and a rolling 3-year work plan (with a base of 2020) will be developed in consultation with service owners and senior management based on:

- Higher inherent risk audit units subject to audit earlier than lower inherent risk audit units.
- Audit units related to the same service or delivered by the same staff will be subject to internal audit in different years.
- · Other factors as required.

As per existing practice, the City Auditor will seek approval of the annual audit work plan from the Audit Committee.

Financial Matters:Not applicable.

Connections:

Not applicable.

Public Engagement Matters:

Not applicable.

Conclusion:

The audit universe is a practical way to categorize the operations of the City and the inherent risk methodology is a key component in developing a risk-based audit work plan. The proposed amendments to the inherent risk assessment bring the methodology up to date and tailor it to the City and its operating environment.

Respectfully submitted,

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City Auditor

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Appendices:

- A. CA-09-19 Appendix A: City of Burlington Audit Universe
- B. CA-09-19 Appendix B: Inherent Risk Assessment Methodology for City of Burlington
- C. CA-09-19 Appendix C: Example of Inherent Risk Assessment Internal Audit Risk Profile

Report Approval:

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All reports are reviewed and/or approved by Department Director, Director of Finance and Director of Legal. Final approval is by the City Manager.

CA-09-19 Appendix A: City of Burlington Audit Universe

Public Safety

Animal Control

- Adoption and Care
- Animal By-laws Enforcement and Education
- Dog Licensing
- By-law Enforcement
- By-law Enforcement Complaints and Inspections
- By-law Licensing
- By-law Lottery Licensing and Liquor Licensing
- By-law Permits
- **Emergency Management**
- City Emergency Planning
- Business Continuity
- Fire Communications
- Fire Emergency Response
- Fire Emergency Response
- Fire Volunteer
- Fire Administration
- Fire Maintenance
- Fire Training
- Fire Station Operations

Fire Prevention & Public Education

- Fire Public Education
- Fire Prevention

• Halton Court Service

- Halton Court Service Prosecution
- Halton Court Service Administration
- Halton Court Service Courtroom Support
- Halton Court Service Collection of Unpaid Fines

Maintenance

Cemetery

- Customer Service and Sales
- Interment Services
- Grounds Maintenance

Environment and Energy

- Community Energy Plan
- Energy Management Plan (City Operations)
- Sustainability Initiatives

Parks and Open Space Maintenance

- Parks and Open Space Maintenance
- Horticulture
- Playground and Irrigation Maintenance

Roadway and Sidewalk Maintenance

- Road and Sidewalk Inspection
- Roadway Routine Maintenance
- Sidewalk Maintenance
- Winter Maintenance

Surface Water Drainage

- Surface Water Drainage Project Management
- Surface Water Drainage Maintenance
- Resident Drainage Customer Service Storm Water Management
- Site Alteration Permitting and Administration

Tree Management

Design Review

- Tree Maintenance
- Tree Planting
- Urban Forest Health and Pest Management
- Public Tree Bylaw Administration & Enforcement
- Private Tree By-law Pilot

Roads and Transportation

Parking

- Parking Space Management
- Parking Revenue Management
- Parking By-law Enforcement
- Roads and Structures Design and Construction
- Survey
- Design
- Construction Administration
- Construction Inspection
- Municipal Consent
- Specialized Transit
- Traffic Operations Management
- Traffic Operations
- Traffic Signals
- Crossing Guard Program
- Streetlighting
- Transit
- Transportation Planning
- Developer Application Review
- Long Range Transportation Planning
- Active Transportation
- Active & Sustainable School Travel

Leisure

Arts and Culture

- Festivals and Events
- Public Art Collection
- Management
- Art & Cultural Programs & Services
- Cultural Mapping and Community Liaison
- Relationship Liaison with Arts & Culture Boards
- Recreation
- Aquatic Programs
- Ice Programs
- Golf Course and Program
- Food and Beverage Services
- Parks and Trails
- General Recreation Programs

Organized Sport Support

- Sport Organization Relationships
- Sport Venue Operations
- Sport Organization Granting
- Sport Organization Allocation of Space
- Sport Joint Venture Contract Management Sport Venue Renovations

Design and Build

Building Code Permits and Inspection

- Application Process
- Plans Review
- Building Inspections

Community Design and **Development Review**

- Official Plan Amendments and Zoning By-law Amendments
- Site plan/Minor Development/Zoning Certificates
- Subdivision/Condo/Part Lot Control
- Variances, Consent and Other City Tribunals
- Policy and Research
- Data Management
- Facilities and Buildings Design and Construction
- Parks and Open Space Design and Development
- Park and Open Space Planning
- Parks and Open Space Design and Construction
- Parks and Open Space Asset Management

Community Garden Program

Landscape Architecture

Council and Citizen Committee

- Council and Committee
- Citizen Advisory Committee
- Election

Service Burlington

- Cashiering & Inquiries
- Vital Statistics
- Records Management
- Access and Privacy

Internal Support and Administration

Asset Management

- Long-Range Financial and

- Insurance/Risk Management
- Real Estate Service (Property &
- Legal Service

- Corporate and Strategic
- Board Liaison
- Corporate Project Management
- Corporate Culture Leadership

- Procurement Process
- Insurance Claims Management
- Financial Reporting and Business Planning
- Property Tax Billing, Collection and Payment Processing

- Vehicle and Equipment Maintenance
- Vehicle and Equipment Operator Training

Mapping

- Service
- Data Management Service

Map Production Service

- **Strategic Communication** Government Relations

- Compensation and Benefits Corporate Learning and
- Development
- Employee & Labour Relations
- Succession Management

Health, Safety and Wellness Information Technology

• IT Support Service

• IT Consulting Service • IT Solution Delivery

• Sign Production

- Sign Design
- Sign Production

Where services/sub-services contain corporate functions, these services/sub-services will be adjusted accordingly.

Governance (not Council)

Information Management

Inventory Management

Fraud Management

Management

Corporate Function

- Accounts Payable/Purchasing Card Program
- Accounts Receivable
- Asset Management Budget Development &
- Monitoring **Business Performance**

Cash Handling

- Change Management
- Compliance Contract Development & Management

Customer Service

- Information Security Innovation
- IT Application Support **IT Network Operations**

- Employee Performance
- **GL Transactions & Accounts** Administration Internal/Administrative
- **Grant Administration** Privacy
 - Project management
 - **Records Management**

Recruitment

- Risk Management
- Strategy Development & Monitoring

- IT Security Payroll & Benefits
- Payroll Processing
- Physical Security
- Procurement
- **Property Management**

Customer Relations and Citizen Representation

- Asset Management Oversight
- Operational Planning
- Corporate Legal
- Land)

Corporate Management

- Planning
- Enterprise Risk Management

• Financial Management

- Transactional Processing

Fleet Management

- Vehicle Procurement
- Geographic Information and
- Property/Land Information

• Government Relations &

- Strategic Communications
- Human Resources
- Recruitment

Internal Audit

- Sign Installation

CA-09-19 Appendix B:

Inherent Risk Assessment Methodology for City of Burlington Updated 2019

Risk Factors and Associated Criteria

The audit work plan is established based on the assessment of risks and exposures in City services. The assessed risk is "<u>inherent risk</u>"; that is, the total risk without controls or raw risk. The level of inherent risk (as determined through risk factors) is used to ensure significant risks are addressed and there is effective use of audit resources.

Inherent Risk Factors

Risk factors include quantitative and qualitative criteria and attributes used to identify areas of City operations that would benefit most from an internal audit. <u>Inherent risk is determined by considering all the factors</u>; not just an individual factor. However, not all factors are considered equal. A weighting is applied to each factor to reflect <u>their relative importance</u> (which is a matter for judgment) based on business practices, legislation and regulations, and the strategic plan. Also, criterion that does not apply to areas will not be considered in the overall factor ranking.

There are many risk factors that can be used in assessing inherent risk. For example, quantitative criteria may include: size of the budget and payroll, number of employees, value of capital equipment, the time elapsed since the last audit, client satisfaction, and extent of partnering/alliances. Qualitative criteria may include: areas of concern to management, possibility of adverse publicity, complexity of IT infrastructure, the effect of governmental or other regulations, technological innovation and information integrity.

The inherent risk factors must be tailored to the City and its operating environment.

Calculating the Overall Inherent Risk Ranking

The overall inherent risk ranking is calculated using the following formula:

OVERALL INHERENT RISK RANKING SCORE = Σ (INHERENT RISK ATTRIBUTE RANKING SCORE x FACTOR WEIGHTING)

Risk assessed audit entities will be listed from highest to lowest score.

The following table contains the factors and a set of attributes for each criterion to assist in assessing the inherent risk of the service and/or sub-service.

Inherent Risk Factors and Criteria for Services

	Inherent Risk Attribute Ranking (Score)						
Factor (Weighting) & Criteria	Very High (100)	High (75)	Moderate (50)	Low (25)	Very Low (1)		
Complexity of Service Delivery (30%)							
Nature of technology/ equipment used in service delivery (e.g. sophisticated vs. simple)	 Requires sophisticated technology/equipment with multiple interfaces 	Requires sophisticated technology/equipment with minimal interfaces	Requires standalone sophisticated technology/equipment	Requires simple technology/equipment with few interfaces	Requires standalone simple technology/ equipment		
Degree of customization of process (e.g. customized vs. standardized)	 Customized process for each transaction 	 Specialized process for majority of transactions; standardized process for less than a quarter of transactions 	 Standardized process for half of transactions; remaining transactions require exceptions to process "rules" 	 Standardized process for three quarters of transactions; minimal exceptions to process "rules" required 	Standardized process for all transactions (same process each time; no exceptions)		
Number of people involved in service delivery	 More than 30 people involved in delivering the service 	 22 - 29 people involved in delivering the service 	 11 - 21 people involved in delivering the service 	6 - 10 people involved in delivering the service	 1 - 5 people involved delivering the service 		
Service delivery sites (e.g. multi-site/counter vs. single site/counter)	 Multi-site/counter service delivery (>5) sites/counters <u>AND</u> contracted services 	 Multi-site/counter service delivery (>5) sites/counters <u>OR</u> contracted services 	Multi-site/counterservice delivery (from 34 sites/counters)	 Multi-site/counter service delivery (from 2 - 3 sites/counters) 	Single site/counter service delivery (from one site/counter)		
 Level of exposure to hazardous activity 	 Work involves daily exposure to high hazard activity (e.g. use of heavy machinery/small equipment, working at heights, chemical handling, working in traffic, etc.) 	 Work involves frequent exposure to high hazard activity (e.g. use of heavy machinery/small equipment, working at heights, chemical handling, working in traffic, etc.) 	 Work involves repeated exposure to manual labour (e.g. lifting, pushing, pulling, digging, etc.) 	 Work involves daily exposure to low hazard activity (e.g. use of computers, desk work, repetitive movement, etc.) 	 Work involves limited exposure to low haza activity (e.g. use of computers, desk work repetitive movement, etc.) 		

	Inherent Risk Attribute Ranking (Score)				
Factor (Weighting) & Criteria	Very High (100)	High (75)	Moderate (50)	Low (25)	Very Low (1)
Materiality & Susceptibility to Error/Fraud (25%)					
Gross revenue (excluding recovery from capital)	- > \$400,000	- Between \$250,001 and \$399,999	- Between \$100,001 and \$250,000	- Between \$25,001 and \$100,000	- < \$25,000
Gross operating expenditures (including human resource costs and excluding one-time project costs)	- > \$2,000,000	- Between \$1,000,000 and \$1,999,999	Between \$500,000 and \$999,999	Between \$250,000 and \$499,999	- < \$250,000
Transparency/openness to scrutiny	One person responsible for tracking, reporting and monitoring	Limited number (1-2) of people involved in tracking, reporting and monitoring	 Small group (3-4) of people involved in tracking, reporting and monitoring 	Group (5-6) of people involved in tracking, reporting and monitoring	 Larger number of people (6+) involved in tracking, reporting and monitoring
Extent of staff complement vacancy	Staffing level at less than 65% of full complement	 Staffing level between 65% and 75% of full complement 	 Staffing level between 76% and 89% of full complement 	 Staffing level between 95% and 99% of full complement 	Staffing level at full complement
 Nature of Assets Used in Service Delivery (i.e. tangible/intangible, convertibility to cash) 	 Liquid (e.g. cash includes cheques and debit/credit card, bonds, etc.) 	Easily converted to cash (i.e. < 14 days); readily available market; highly liquid	 Can be converted to cash (i.e. between 15 days and 29 days); market is specialized; somewhat liquid 	Difficult to convert to cash (i.e. 30 days); small market	No cash value; not liquid
Involvement in known risk areas of misconduct ¹	 Involved in more than one of procurement/ contracting, approvals/ permits and licensing, by-law enforcement 		 Involved in any of procurement/ contracting, approvals/permits and licensing, by-law enforcement 		 Not involved in any of procurement/ contracting, approvals/permits and licensing or by-law enforcement

¹ International Centre for Criminal Law Reform and Criminal Justice Policy, *Municipal "Best Practices":Preventing Fraud, Bribery and Corruption* (Vancouver: ICCLR 2013) < <a href="http://icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca/sites/icclr.law.ubc.ca

	Inherent Risk Attribute Ranking (Score)				
Factor (Weighting) & Criteria	Very High (100)	High (75)	Moderate (50)	Low (25)	Very Low (1)
Dollar value of daily cash deposits	- greater than \$5,001	between \$2,501 and \$5,000	between \$1,501 and \$2,500	between \$251 and \$1,500	- less than \$250
Exposure to Scrutiny (10%)					
Degree of public/external customer involvement	 Everyday direct involvement of public/external customers 	 Frequent direct involvement of public/external customers 	 Periodic direct involvement of public/external customers 	 Infrequent direct involvement of public/external customers 	Rare direct involvement of public/external customers
Degree of internal customer involvement	 Everyday direct involvement of internal customers 	 Frequent direct involvement of internal customers 	Periodic direct involvement of internal customers	 Infrequent direct involvement of internal customers 	Rare direct involvement of internal customers
History of media attention (e.g. newspapers, blogs, op eds, etc.)	 Subject of regular and sustained media attention 	 Subject of frequent media attention 	Subject of minimal or short-lived media attention	 Subject of infrequent media attention 	Never been subject of media attention
Employee Base Involved	Every employee involved	 More than three- quarters of employees involved 	 Half of employees involved 	 More than one-quarter of employees involved 	Less than one-quarter or one group of employees involved
Degree of Change (20%) (over last 12 months and expected within					
Changes to service and/or processes	 Totally new service and/or delivery process(es) 	Multiple/major changes to service and/or delivery process(es)	Small number changes to service and/or delivery process(es)	 Infrequent/minor changes to service and/or delivery process(es) 	 No changes to service and/or delivery process(es)
Technology/equipment change	 Implemented new software/hardware/ equipment to support service 	Major upgrade or update to <u>all</u> software/hardware/equipment to support service	Major upgrade or update to some software/hardware/ equipment to support service	 Minor upgrade or update to all or some software/hardware/ equipment to support service 	 No changes to software/hardware/ equipment to support service

		Inherent Risk Attribute Ranking (Score)				
Factor (Weighting) & Criteria	Very High (100)	High (75)	Moderate (50)	Low (25)	Very Low (1)	
People Participation (15%)						
Staff turnover (due to reasons such as retirement, leaves of absence, job rotations, etc.)	More than 50% of all staff has changed in last year	Between 30% - 50% of all staff have changed in last year	Between 20% - 30% of all staff have changed in last year	Between 10% - 20% of all staff have changed in last year	Less than 10% of all staff has changed in last year	
Staff performing "must do" activity(ies)	 Only one person knows how "must do" activity(ies) are performed. <u>OR</u> key person dependency 	2 people know how "must do" activity(ies) are performed	3 people know how "must do" activity(ies) are performed	4 people know how "must do" activity(ies) are performed	5 or more people know how "must do" activity(ies) are performed	
Difficulty in filling positions (beyond normal recruitment timing)	Takes 8 or more months longer	Takes 6 – 7 months longer	 Takes 4 – 5 months longer 	Takes 2 – 3 months longer	Takes less than 1 month longer	
Difficulty in attracting candidates	 Had to go back to market > 2 times after original recruitment <u>OR</u> 2 offers made and declined 	 Had to go back to market 2 times after original recruitment <u>OR</u> 2 offers made and declined 	 Had to go back to market 1 time after original recruitment <u>AND</u> 1 offer made and declined 	 Had to go back to market 1 time after original recruitment <u>OR</u> 1 offer made and declined 	Filled position from original recruitment <u>OR</u> no offers declined	

CA-09-19 Appendix C: Example of Inherent Risk Assessment

	Audit Unit:	Service:	Service Catego	ory:	Service Ov	vner:	
	Internal Audit	Internal Audit	Internal Suppo	ort and Adminis	st Sheila Jones		
			Attribute			Overall Risk	
Factor	Criteria	Attributes (Ranking)	Weighting	Rank	Score	Score	
Complexity of Service Delivery	Nature of technology/equipment used in service delivery (e.g. sophisticated vs. simple)	Requires standalone simple technology/equipment (VL)	30%	Moderate	50	15	
	Degree of customization of process (e.g. customized vs. standardized)	Customized process for each transaction (VH)					
	Number of people involved in service delivery	1 - 5 people involved in delivering the service (VL)					
	Service delivery sites (e.g. multi-site/counter vs. single site/counter)	Single site/counter service delivery (from one site/counter) (VL)					
	Level of exposure to hazardous activity	Work involves daily exposure to low hazard activity (e.g. use of computers, desk work, repetitive movement, etc.) (L)					
Materiality & Susceptibility to	Gross revenue	< \$25,000 (VL)	25%	Moderate	50	12.5	
Error/Fraud	Gross operating expenditures (including human resource costs and excluding one-time project costs)	Between \$250,000 and \$499,999 (L)					
	Transparency/openness to scrutiny	One person responsible for reporting and monitoring (VH)	Ī				
	Extent of staff complement vacancy	Service is supported with full complement (VL)	1				
	Nature of Assets Used in Service Delivery (i.e. tangible/intangible, convertibility to cash)	No cash value; not liquid (VL)					
	Dollar value of daily cash deposits	< \$250 (VL)	1				
	Involvement in known risk areas of misconduct	Involved in any of procurement/ contracting,					
	(procurement/contracting, approvals/permits, licensing, by law enforcement)	approvals/permits and licensing, by-law enforcement (M)					
Exposure to Scrutiny	Degree of public/external customer involvement	Rare direct involvement of public/external customers (VL)	10%	Low	25	2.5	
	Degree of internal customer involvement	Frequent direct involvement of internal customers (H)					
	History of media attention (e.g. newspapers, blogs, op eds, etc.)	Never been subject of media attention (VL)					
	Employee Base Involved	Less than one-quarter or one group of employees involved (VL)					
Degree of Change (over last 12 months and expected within next 6 months)	Changes to service and/or process (manual and/or automated)	No changes to service and/or delivery process (VL)	20%	Very Low	1	0.2	
	Technology/equipment changes	No changes to software/hardware/equipment to support service (VL)					
People Participation	Staff turnover (due to reasons such as retirement, leaves of absence, job rotations, etc.)	Less than 10% of all staff has changed in last year (VL)	15%	Low	25	3.75	
	Staff performing "must do" activity(ies)	Only one person knows how "must do" activity(ies) are performed. i.e. OR key person dependency (VH)					
	Difficulty in filling positions (beyond normal recruitment timing)	Takes less than 1 month longer (VL)					
	Difficulty in attracting candidates	Filled position from original recruitment OR no offers declined (VL)					
			100%			33.95	

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		Most Recent	Previous	Previous	Previous
Past Audit Experience: No	When:				
Area of Focus:					

Summary of Adjustment	ts for Current Year's Assessment 2019
Complexity of Service	
Delivery	
Materiality &	
Susceptibility to	
Error/Fraud	
Exposure to Scrutiny	
Degree of Change (over	
last 12 months and	
expected within next 6	
months)	
People Participation	

Description of Audit Unit

This service is delivered to: City senior management, for comfort that appropriate internal controls are in place to manage risk and City staff, for understanding risks and the internal controls required to minimize risk.

Results of this service are conveyed to the Audit Committee/Council to provide information regarding the effective management of processes in place to mitigate risk.

Existing service delivery includes independent, objective audits and consulting services to evaluate and improve the effectiveness of risk management, internal control and the practices that ensure accountability, fairness and transparency. In addition, external resources (e.g. accounting firms or consulting firms) may be used to deliver the audit service.

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