

Failure to fully complete this form may result in rejection.
 Making a false statement may result in a fine or prosecution
 under the *Technical Standards and Safety Act*

Licence Number 0076442508-C

Check applicable type of propane operations.

Cylinder Motor Fill Filling Plant Card/Keylock

Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area.

SECTION A: GENERAL INFORMATION

The Undersigned applies to TSSA for a review for an RSMP under Ontario's *Technical Standards and Safety Act*,
 Propane Storage and Handling Regulation.

A Company Name Costco Wholesale (Canada) Ltd. Ontario Corporation No., if applicable

Operator Name (if different from above)
Ken Shantz (Agent/Warehouse Manager)

Telephone No. 1-800-463-3783 Fax No. N/A E-mail service@costco.ca

B Street No. 415 Street Name / 911 Number / Address, if applicable West Hunt Road
 Town / City or Township / County Ottawa Province Ontario Postal Code K2E 1C5

Mailing address if different from above.

C Street No. _____ Street Name / 911 Number / Address, if applicable _____
 Town / City or Township / County _____ Province _____ Postal Code _____

Information on Container Refill Centre or Filling Plant

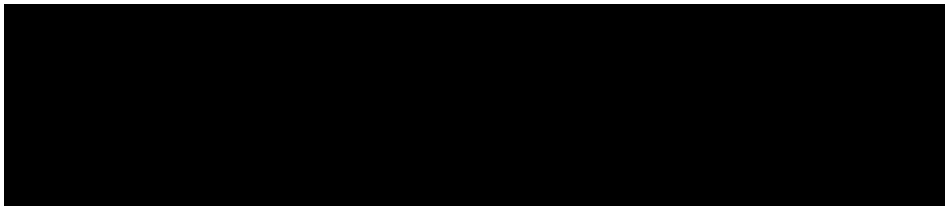
D Location of facility.
 Street No. 4438 Street Name / 911 Number / Address, if applicable King Street East Nearest Major Intersection King Street & Sportsworld Drive

Town / City or Township / County Kitchener Province Ontario Postal Code N2P 2G4

Name of Licence Holder Ken Shantz on behalf of Costco Wholesale (Canada) Ltd.
 Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT). Robert Moyer ROT type 100-08-77282

Municipality (or municipalities if the facility or its hazard distance touches multiple borders)
City of Kitchener

Hours of operation.



Kalmeij Superior Propane 21/02/2012



Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto Ontario M8X 2X4
Fax: 416.231.4903
Customer Service: 1.877.682.8772

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
Propane Storage and Handling Regulation

SECTION A: GENERAL INFORMATION (cont'd)

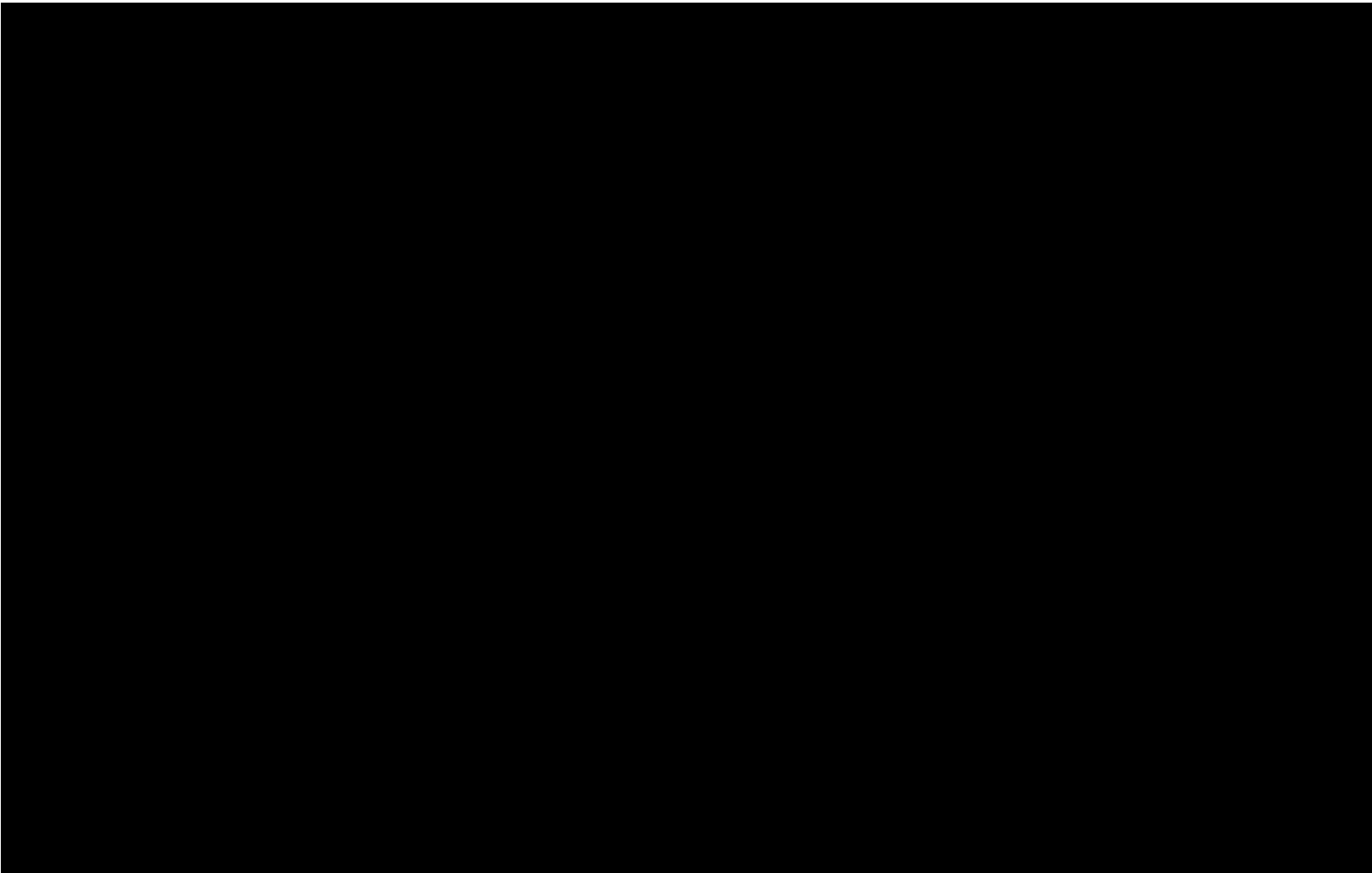
Indicate the year the facility was established. 1994 Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. none

Identify the psig rating and serial number for each fixed propane storage tank on site.


	PSIG	Serial Number
Tank 1:	<u>250</u>	<u>5 563191</u>
Tank 2:	_____	_____
Tank 3:	_____	_____

Enter capacity of propane in USWG, fixed, portable, and mobile, and provide detailed inventory that includes the number of tank/vessel for each type (fixed, portable, and mobile) and the capacity of each tank/vessel, on a separate document.

Fixed: 2000 USWG Portable: 557 USWG Mobile: _____



Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) <u>Ken Shantz</u>		Official Title <u>Warehouse Manager</u>	
Signature 		Telephone No. <u>519-589-7716</u>	Date (dd-mm-yyyy)



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Level 1 Risk and Safety Management Plan (RSMP)
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SECTION A: GENERAL INFORMATION (cont'd)
Activity Information

Name of Propane Supplier(s)			
Superior Propane - Ontario Regional Operations Centre			
Street No.	Street Name / 911 Number / Address, if applicable		
251	Woodlawn Road West, Unit 217		
Town / City or Township / Country		Province	Postal Code
Guelph		Ontario	N1H 8J1
Telephone No.	Fax No.	Contact Name	
1-877-873-7467	519-836-7766	Mike Mullins	
E-mail			
mullinsm@superiorpropane.com			

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>			
Superior Propane - Guelph			
Street No.	Street Name / 911 Number / Address, if applicable		
7022	Wellington Rd 124 South		
Town / City or Township / Country		Province	Postal Code
Guelph		ON	N1H 6L3
Telephone No.	Fax No.	Contact Name	
519-780-5831		Jason Swan	
E-mail			
swanj@superiorpropane.com			

Off-site Cylinder and/or Mobile Storage	Capacity stored off-site, in USWG	For Office Use - Party No.
None		
Street No.	Street Name / 911 Number / Address, if applicable	
Town / City or Township / Country		Postal Code
Telephone No.	Fax No.	Contact Name

Note: Customer storage is not considered off-site storage.

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Ken Shantz	Warehouse Manager	
Signature	Telephone No.	Date (dd-mm-yyyy)
	519-589-7716	



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN

The licence holder will complete Section B in consultation with the local Fire Services.

Description of the maximum volume, types and storage location of other hazardous materials on site, if any.

Gasoline - 12 gallons in fire proof container

Oil - 8000 litres located in tire shop

Description of fire and emergency equipment indicated on facility site map.

1. Fire Extinguisher Type: class 80-B.C - located at propane filling station and inside tire centre beside emergency doors
2. Emergency stop push button - located outside tire centre. This shuts down the pump and closes a solenoid valve upstream of hoses
3. Sprinkler system in the tire shop

List of fire protection controls (e.g., fire detection systems, fire notification systems, alarm systems, automatic shut off devices, fusible links, etc.) and describe their function, use and operation.

1. Fusible link on ISC valve - isolation valve between the tank and the downstream propane dispensing equipment.
2. Emergency stop push button - located outside tire centre. This shuts down the pump and closes a solenoid valve upstream of hoses
3. Power supply breaker inside the building. This cuts all power to the propane system - shuts down pump; closes solenoid valve.
4. Gas Monitor - Outside of cabinet

Maintenance and testing schedule for fire protection controls and devices.

Maintenance and testing is undertaken by Superior Propane according to Superior Propane's Maintenance Standard. Schedule for key equipment is:

1. Pumps (Pump every 3 months; Pump Motor check belts monthly; grease motor every 6 months)
2. ISC Valves (test for closure every 6 months)
3. Fusible links - inspected every 6 months; 4. Storage tank Relief Valves - inspect every 2 years; replacement schedule as per provincial regulations.
5. Fire extinguishers maintained by Costco in accordance with Ontario fire regulations. Maintenance records are kept for 5 years.

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Name of person completing this form (please print) Ken Shantz	Official Title Warehouse Manager	
Signature 	Telephone No. 519-589-7716	Date (dd-mm-yyyy)



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

1. Contacts for Emergency Response

1. Facility Contact Personnel - Key Contact

Name
Jon Ardelean

Official Title
Tire Centre Manager

Telephone No. 519-650-3330 Fax No. 519-650-3355

E-mail
w512tsm@costco.com

Role and responsibilities in emergency
Coordinate site response

5. Facility 24-Hour Contact Person

Name
Ken Shantz

Official Title
Warehouse Manager

Cell No. 519-589-7716 Fax No. 519-650-3355

E-mail
w512mgr@costco.com

Role and responsibilities in emergency
Coordinate site response

2. Facility Contact Personnel - Alternate Contact

Name
Andrew Smith

Official Title
Assistant Warehouse Manager

Telephone No. 519-650-3330 Fax No. 519-650-3355

E-mail
w512mgr3@costco.com

Role and responsibilities in emergency
Coordinate site response if agent unavailable

6. Name of Facility Manager

Name
Susan Ferreira

Official Title
Administration Manager

Telephone No. 519-650-3330 Fax No. 519-650-3355

E-mail
w512adm@costco.com

Role and responsibilities in emergency
Coordinate site response

3. Local Fire Services - Key Contact

Name
Timothy Beckett

Official Title
Fire Chief

Telephone No. 519-741-2926 Fax No. N/A

E-mail
tim.beckett@kitchener.ca

Role and responsibilities in emergency
Coordinate/advise on Fire Service response Liaise with police

7. Propane Supplier Key Contact Person

Name
Superior Propane Hotline

Official Title

Telephone No. 1-877-873-7467 Fax No.

E-mail

Role and responsibilities in emergency
Identify and dispatch Superior Propane and or LPERGC emergency response personnel as required

4. Local Fire Services - Alternate Contact

Name
Philip Mellor

Official Title
Assistant Chief Fire Prevention Officer

Telephone No. 519-741-2495 Fax No. 519-741-2697

E-mail
phil.mellor@kitchener.ca

Role and responsibilities in emergency
Alternate - Coordinate/advise on Fire Service Response Liaise with police

8. Municipal Contact

Name
Alain Pinard

Official Title
Director of Planning, Economic & Business Development

Telephone No. 519-741-2319 Fax No. N/A

E-mail
alain.pinard@kitchener.ca

Municipality
Waterloo **KITCHENER**

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Name of person completing this form (please print) Ken Shantz	Official Title Warehouse Manager
Signature 	Telephone No. 519-589-7716 Date (dd-mm-yyyy)



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

2. Additional Safety Measures

Describe any other measures in place at the facility that exceed the minimum Code and Standards requirements.

Emergency Shut Off push button to shut down pump and close solenoid valve upstream of dispensing hoses.

Fire Suppression System - (fire sprinkler system) inside Costco building

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Signature	Telephone No. 519-589-7716	Date (dd-mm-yyyy)



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

3. Record of Emergency Training Provided - For most recent 12-month period.

Training on Emergency Response Plan and Procedures provided to facility key contacts.

Training Date (dd-mm-yyyy) 11/03/2010	Print Name of Training Provider: Costco - Standard Safety Training (in house)
	Print Name of Instructor: Jon Ardelean
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

Training on the facility's Emergency Management Procedures provided to staff.

Training Date (dd-mm-yyyy) 2010	Print Name of Training Provider: Costco - Standard Safety Training
	Print Name of Instructor: Jon Ardelean
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

On-site specific training provided to certificate holders / persons with Records of Training.

Training Date (dd-mm-yyyy) As Required	Print Name of Training Provider: FSN or Other	Please Note - a ROT is valid for 3 years
	Print Name of Instructor: to be arranged as required	
Training Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	
Training Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

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Signature 	Telephone No. 519-589-7716
	Date (dd-mm-yyyy)



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

4. Emergency Training Plan for Coming Year

Training on Emergency Response Plan and Procedures provided to facility key contacts.

Target Date (dd-mm-yyyy) 2011	Print Name of Training Provider: Costco - Standard Safety Training	
	Print Name of Instructor:	
Target Date (dd-mm-yyyy) Q1 2012	Print Name of Training Provider: Superior Propane or Other	Please Note - the course content is being
	Print Name of Instructor: to be arranged	developed and should be available for
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	teaching in the fourth quarter of this year
	Print Name of Instructor:	

Training on the facility's Emergency Management Procedures provided to staff.

Target Date (dd-mm-yyyy) Q1 2012	Print Name of Training Provider: Key Site Contact to train Staff
	Print Name of Instructor: to be arranged
Target Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

On-site specific training provided to certificate holders / persons with Records of Training.

Target Date (dd-mm-yyyy) 10-05-2011	Print Name of Training Provider: Unknown	Please Note - a ROT is valid for 3 years
	Print Name of Instructor: Michael Farah	
Target Date (dd-mm-yyyy) to be arranged	Print Name of Training Provider: FSN or Other	
	Print Name of Instructor: to be arranged as required	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

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Signature 	Telephone No. 519-589-7716
	Date (dd-mm-yyyy)



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.

5. Emergency Response Communications Plan

Warnings and Actions

Describe who gives warnings to whom, and how and when the warning will be given (including public notification as appropriate).
The operator or alternate will contact emergency services by calling 911 and will provide warnings outlined in the attached "Propane Emergency Response Procedures" card (to be posted on site and part of the employee training) If it is safe to do so this could involve verbally advising neighbors to evacuate.
The owner/operator may also contact Superior Propane via the emergency number identified in the ERP.

Describe what action is to be taken and by whom when a warning is issued (including details of a meeting place in a safe identified area and activating the evacuation plan, if necessary).
The owner/operator or alternate should first follow the actions in the ERP provided herein. Staged evacuation, if the release of propane cannot be stopped by cutting electrical power may be required. The muster location will be on the sidewalk, by the entrance/exit lanes to the property off of King Street and away from a dispersing propane cloud. Subsequent evacuation instructions potentially up to the Hazard Distance to be provided by municipal emergency responders. Residences and businesses beyond the site boundary to be notified by municipal emergency responders.

Communication with Emergency Response Authorities

Describe when and how the licence holder will give early warning to emergency response authorities (including a process to ensure that a call is placed to 911).
When the system is operational, a ROT person will be on duty and be in the propane tank area. They key contact or alternate will be implementing ER actions including notifying emergency responders. Calling 911 will occur immediately after any attempts to shut down the system.
When the system is not in operation, the ISC valve (main isolation valve) is closed and the propane system is unattended but shutdown. Any incidents involving the propane tank during such times will require the intervention of random, nearby individuals or store staff.

Describe provisions for fire department entry when there are no operations or staffing at the propane site.
The propane tank system is located in a wide open area that is easily accessible from King Street.
The fire access routes are identified in the attached site plan.

Describe how the licence holder will ensure continual flow of updated information to authorities.
The critical information required from the license holder is information on how to shut down the system and the fill level in the tank (if known).
Fill level is relevant from a time to BLEVE perspective (a nearby empty tank will BLEVE sooner than a full tank if there is fire impingement on the tank).
This information will be provided to the authorities verbally by key contact, Jon Ardelean, if on-site or by cell phone if after-hours.

How long will it take the facility liaison person to respond to the site.
It would take the key contact Jon Ardelean, approx 10-15 minutes to arrive on-site after receiving the emergency call.

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Signature 	Telephone No. 519-589-7716
	Date (dd-mm-yyyy)



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.

6. Building and Site Security and Procedures

- | | Yes | No |
|---|-------------------------------------|-------------------------------------|
| 1. Does the propane location have controlled access to limit unnecessary risk and entry (lock out procedures)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Is there adequate night lighting at the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Are procedures in place that ensure access routes, aisles, storage area, filling areas and the grounds are kept clear from unwanted materials? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Are there procedures that capture and record the daily inspection of hoses and inspection requirements for filling systems and mechanical devices used in the transfer of propane? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Does the facility have procedures that include a process to isolate and purge any overfilled propane cylinders? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Are weighing systems validated for accuracy? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are storage areas clearly marked with the vessels' capacity status (i.e., filled, empty, purged and other hazardous materials)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Are quality assurance procedures in place to ensure that all valves are closed after the propane cylinders are filled?(e.g., QCC valves) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Is the schedule of maintenance and testing activities retained on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

7. Water Supply

The propane licence holder should work with the local fire department to determine water supply capabilities that are available based on the propane facility's location.

- | | Yes | No |
|---|-------------------------------------|--------------------------|
| 1. Is a pressurized water system available at the propane facility site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Can the municipal fire department pump 375 GPM (1420 LPM) of water at this location? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. What is the unobstructed distance to the closest water supply that could be used for firefighting activities? (distance in metres only) | 40 m _____ | |
| 4. What is the unobstructed distance to the closest approved water supply with year round access if there are no hydrants? (distance in metres only) | N/A _____ | |

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Name of person completing this form (please print) Ken Shantz		Official Title Warehouse Manager
Signature 		Telephone No. 519-589-7716
		Date (dd-mm-yyyy)

January 6, 2012

Kitchener Fire Services
Assistant Chief Fire Prevention Officer Phil Mellor
270 Strasburg Road
Kitchener, ON
N2E 3M6

RE: RSMP Submission

Dear Assistant Chief Fire Prevention Officer Mellor;

As you are aware, the new Ontario Regulation 211X01 requires all propane handlers in Ontario to complete a Risk and Safety Management Plan (RSMP).

This RSMP is required by the Technical Standards and Safety Authority (TSSA) in order to renew a propane license.

Part of the process includes that the local Fire Department review the RSMP.

Therefore, we kindly ask you to review this RSMP for Costco Wholesale Ltd., located at 4438 King Street East in Kitchener.

Please complete page 11, with your comments and recommendations, sign, and return to:

Jason W. Smith, CFEI
Fuel Regulatory & Technical Consultant
2377 Hwy. #2, Unit 120, Suite 456
Bowmanville, ON L1C 5E2

Phone: (705) 761-9306
Email: j_w_smith20@hotmail.com

Thank you in advance for your attention to this matter.

Sincerely,

Kelly Almey
Process Safety Coordinator, Superior Propane
Telephone: (905) 285-2480 x5549

Enclosure: 1



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.

8. Licence holder and local Fire Services Review

To be completed by the Local Fire Services

Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>

If not, please explain (e.g., no fire services).

Fire services comments, if any:

To be completed by the Licence Holder

In response to the above comments, the following action(s) is required:

The licence holder will respond to the Local Fire Services comments by: _____
(dd-mm-yyyy)

LOCAL FIRE SERVICES

The undersigned has reviewed Section B of the Risk and Safety Management Plan Fire Services.

Print name	Signature	Date (dd-mm-yyyy)
Local Fire Services Name		

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) Ken Shantz	Official Title Warehouse Manager	
Signature 	Telephone No. 519-589-7716	Date (dd-mm-yyyy)



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.

8. Licence holder and local Fire Services Review

To be completed by the Local Fire Services

Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?

Yes

No

If not, please explain (e.g., no fire services).

Fire services comments, if any:

[See attached letter dated January 18, 2012.](#)

To be completed by the Licence Holder

In response to the above comments, the following action(s) is required:

The licence holder will respond to the Local Fire Services comments by: _____
(dd-mm-yyyy)

LOCAL FIRE SERVICES

The undersigned has reviewed Section B of the Risk and Safety Management Plan Fire Services.

Print name	Signature	Date (dd-mm-yyyy)
Local Fire Services Name Phil Mellor, Assistant Chief Fire Prevention Officer		18-01-2012

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Name of person completing this form (please print)	Official Title
Ken Shantz	Warehouse Manager
Signature	Telephone No.
	519-589-7716
	Date (dd-mm-yyyy)



KITCHENER FIRE DEPARTMENT
Fire Prevention Services
270 Strasburg Rd
Kitchener, Ontario N2E 3M6
Phone: (519) 741-2495
Fax: (519) 741-2697
TTY: 1-866-969-9994
fireprevention@kitchener.ca

January 18, 2012

Jason Smith
Fuel Regulatory & Technical Safety Consultant
2377 Hwy. #2, Unit 120, Suite 456
Bowmanville. ON L1C 5E2

Attention: Jason Smith

Re: Level 1 Risk and Safety Management Plan
TSSA License Number 0076442508-C
Costco Wholesale Ltd., 4438 King St. E., Kitchener, ON

To Whom It May Concern:

The Level 1 Risk and Safety Management Plan submitted on January 9, 2012 for the propane facility located at the above-captioned site has been reviewed by this Department. The following are our comments in this regard:

Residential receptors are located within the blast radius identified in the plan approximately 115m from the storage tank. Future residential development could be located within the projected diameter of the fireball that could be created in the event of a BLEVE of the 2,000 USWG propane tank located at this site. It is the opinion of this Department that the owner/operator should employ/install engineered risk mitigation procedures and equipment at this site to lower the risk to the present and future residential receptors to an acceptable level.

No record of training on the use of fire extinguishers for employees is documented in the RSMP. Distances to property lines, fire hydrants, and receptors are not shown correctly within the RSMP.

Yours Truly,

Phil Mellor
Assistant Chief Fire Prevention Officer
Kitchener Fire Department



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SECTION C: SUBMISSIONS

Applicant must include a Facility Site Plan and Map of Surrounding Area

Facility Site Plan.

The licence holder will submit a copy of the original facility site plan updated with the following information:

1. The storage location of fixed, portable, and mobile vessels.
2. The maximum volume, types and storage location of hazardous materials.
3. Location of permanent structures on site.
4. Access and egress points and location of barriers.
5. Location of fire and emergency equipment (e.g., sprinkler systems, extinguishers, suppression systems) on site and location of fire hydrant or water supply where available.
6. Location of emergency shut off/shut down switches/valves.

Map of Surrounding Area.

The licence holder will submit a scaled aerial map of the surrounding area showing the following information:

7. The capacity and placement of the single largest propane storage vessel, including its setback from the front, rear and side property lines.
8. GPS co-ordinates of the single largest vessel.
9. Visual indication of the single largest fixed vessel and a circle made using the distance in Table 1 as the radius from the single largest fixed vessel.
10. Clear indication of the municipality or municipalities present within the circle.
11. Visual indication of property line information.
12. The location and name of roads within or abutting the site.
13. Key note to the drawing indicating the facility's municipal address, municipal lot number(s) and concession lines as applicable, and the date the map was prepared.
14. Address and contact information for each municipality (municipal clerk or secretary-treasurers of planning board). (Refer to page 5.)
15. Complete "Required Mapping Information from Updated Site Plan" in table below .

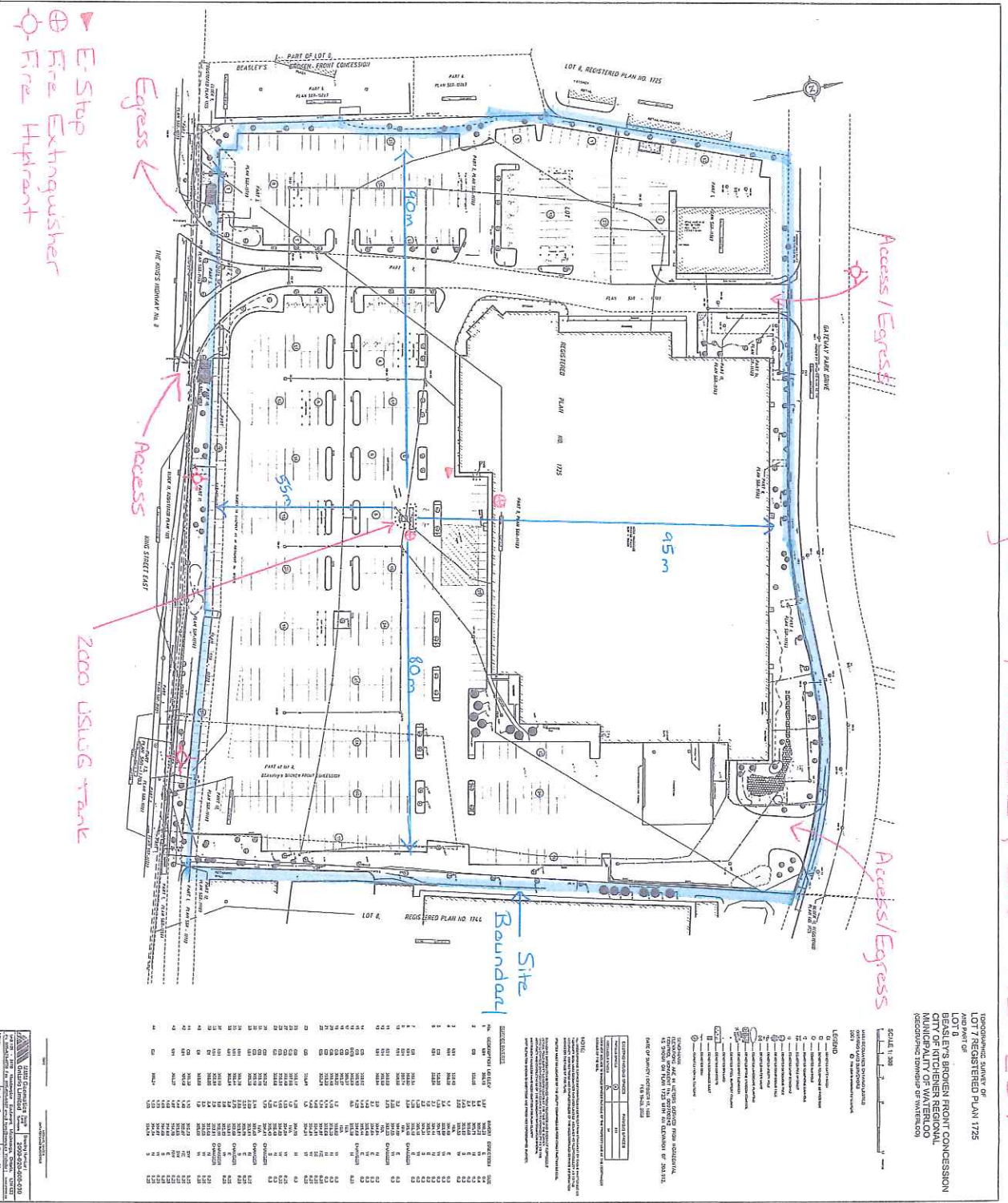
Required Mapping Information from Updated Site Plan

Date Map Prepared (dd-mm-yyyy) 17-05-2011	Capacity of single largest propane storage vessel (USWG) 2000 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: <u>55 m</u>	Right side property line: <u>80 m</u>
Rear: <u>95 m</u>	Left side property line: <u>90 m</u>
GPS coordinates of single largest vessel: <u>Lat 43 4066 Long -80 3917</u>	

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) Ken Shantz	Official Title Warehouse Manager	
Signature 	Telephone No. 519-589-7716	Date (dd-mm-yyyy)

Castco Wholesale Ltd. - 4438 King St. E., Kitchener, ON N2P 2G4



▲ E-Stop
 ⊕ Fire Extinguisher
 ○ Fire Hydrant

Egress ←

Access

2000 USLUG tank

Access/Egress

Access/Egress

Boundary Site

SCALE: 1:300

UNITS: METRIC

DATE: 2010-03-10

PROJECT: CASTCO WHOLESALE LTD. - 4438 KING ST. E., KITCHENER, ON

LOT 7 REGISTERED PLAN NO. 1725

LOT 8 REGISTERED PLAN NO. 1747

BEASLEY'S BROKEN FRONT CONCESSION

CITY OF KITCHENER REGIONAL

(REGISTERED TOWNSHIP OF WATERLOO)

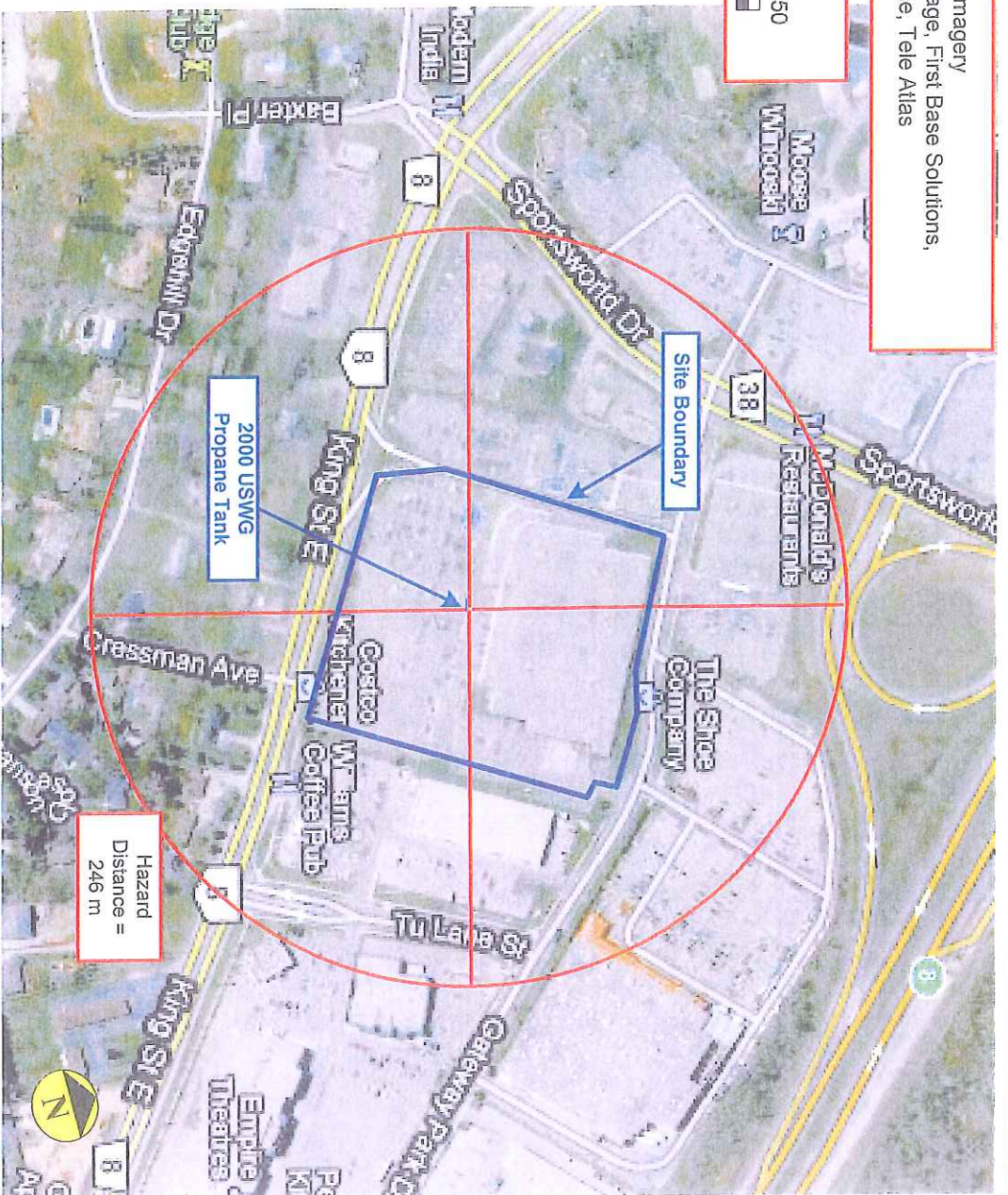
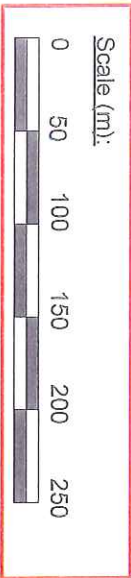
NOTES:

1. THIS PLAN IS A REVISION OF THE PREVIOUS PLAN AND ALL CHANGES ARE INDICATED BY RED LINES.
2. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITY.
3. THE PLAN IS SUBJECT TO THE ZONING BY-LAW AND OTHER REGULATIONS OF THE CITY OF KITCHENER.
4. THE PLAN IS NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

LEGEND:

- 1. EXISTING BUILDING
- 2. EXISTING DRIVEWAY
- 3. EXISTING DRIVEWAY
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 Map data ©2011 Google, Tele Atlas



Setback Distances to Site Boundary: North : 95 m East: 80 m South: 55 m West: 90 m

Capacity of Propane Storage Tank = 2000 USWG

GPS Co-ordinates of Propane Storage Tank = 43.4066, -80.3917

Denoted by circle centred on tank; radial distance = 246 m

Municipality (ies) within the 1 psi overpressure circle:
 City of Kitchener

Municipal Contact:
 Alain Pinard
 Director of Planning, Economic & Business Development
 City of Kitchener
 200 King Street West
 Kitchener, Ontario N2G 4G7
 Tel: 519-741-2203
 Ealain.pinard@kitchener.ca

Map of Surrounding Area

Costco
 4438 King Street East, Kitchener, ON, N2G 3W6
 PLAN 1725 LOT 7 BEASLEYS BROKEN FRONT PT
 LOT 8 SUBJ TO ROW

Drawn by: L. Oliverio Date: May 17, 2011



Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto Ontario M8X 2X4
Fax: 416.231.4903
Customer Service: 1.877.682.8772

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
Propane Storage and Handling Regulation

SECTION C: SUBMISSIONS (cont'd)

Applicant must include a Facility Site Plan and Map of Surrounding Area

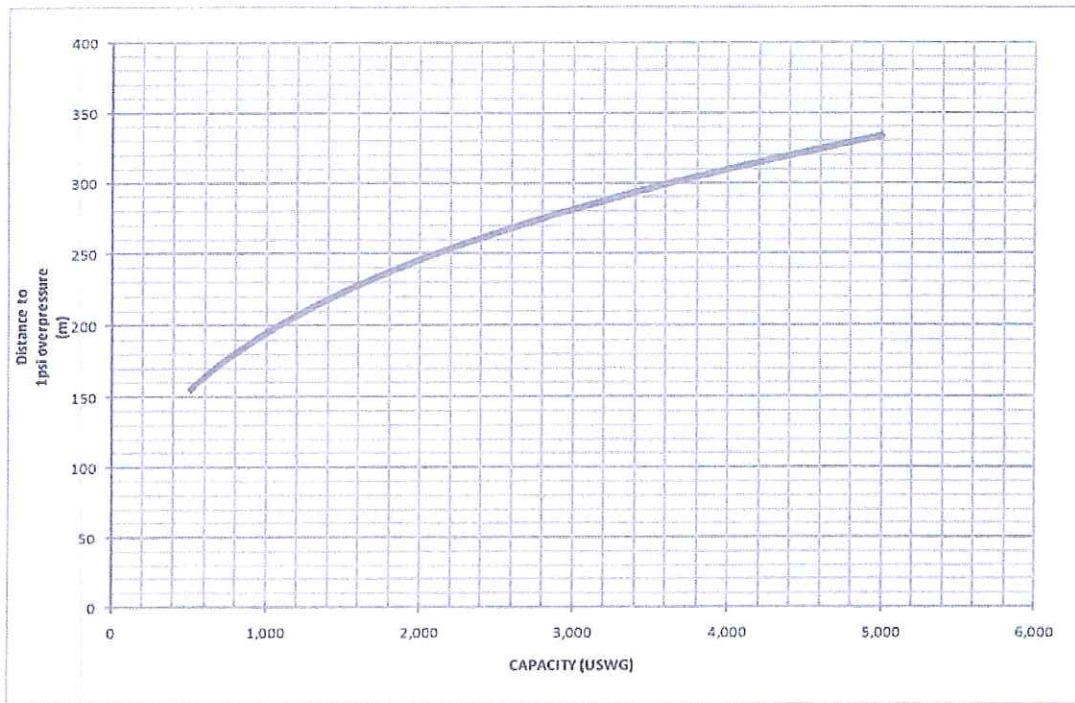
Table 1: Distance Table

Water Capacity (litres)	Nominal Water Capacity (USWG)	Distance to 1 psi overpressure (m)
1,890	500	155
3,780	1,000	195
4,920	1,300	213
6,620	1,750	235
7,130	1,885	241
7,560	2,000	246
18,900	5,000	333

Formula: $D = 16.94 \times (1.524 \times C)^{1/3}$
 D = Distance to overpressure of 1 psi (meters)
 C = Tank Total Capacity in USWG

Parameters: Density of Propane is 0.5033 kg per litre @ 15 C
 Assume all vessels are 80% full
 1 gallon [US, liquid] = 0.003785411784 cubic meter
 1 cubic metre = 264.17 USWG

Hazard Distance Chart (EPA-TNT model)



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Name of person completing this form (please print) Nothing completed on this page		Official Title	
Signature 		Telephone No.	Date (dd-mm-yyyy)



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SECTION C: SUBMISSIONS (cont'd)

Applicant must include a Facility Site Plan and Map of Surrounding Area

As an accompaniment to the Map of Surrounding Area, provide the following information about buildings and features present within the circle in Table 2.

Table 2: Buildings and Features

Buildings and Features Present within the Circle on the Map of the Surrounding Area AND Name and Address of Closest Building or Feature	* Number of Buildings and Features (mark with an "X")				Distance from Tank to Closest Building or Feature
	0	1	2-10	11+	
Industrial buildings or parks or golf courses Name: <u>None within the Hazard Distance</u> (RiverEdge Golf Club approx. 350 m) Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. Name: _____ Address: _____ City: _____				X	<u>115</u> m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Various retail establishments and various restaurants</u> Address: <u>King St., Gateway Park Dr. & Sportworld Drive</u> City: <u>Kitchener</u> Province <u>ON</u> Postal Code _____				X	<u>25+</u> m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: <u>None within Hazard Distance</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons. Name: <u>None within Hazard Distance</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: <u>None within Hazard Distance</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m

* For multi-unit buildings, count each unit as "1".

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Signature 	Telephone No. 519-589-7716
	Date (dd-mm-yyyy)



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SECTION C: SUBMISSIONS (cont'd)

Applicant must include a Facility Site Plan and Map of Surrounding Area

Portable Storage Additional Information Sheet

Cylinder Size	Capacity in USWG	Quantity	Total Volume in USWG
# 420	123.9		
# 100	29.5		
# 40	11.75		
# 33.3	9.62		
# 30	8.8		
# 20	5.8	96	557 USWG
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity 557 USWG			

Tanks Stored On-site Not Connected for Use

Tank Size In USWG	Quantity	Total Volume in USWG
2000 USWG	1	2000 USWG
Total Tank Capacity 2000 USWG		

Total Cylinder Capacity	557 USWG
Total Tank Capacity	2000 USWG
Total Portable Capacity	0

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Name of person completing this form (please print) Ken Shantz	Official Title Warehouse Manager	
Signature 	Telephone No. 519-589-7716	Date (dd-mm-yyyy)