



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

This Level 1 RSMP applies to: a facility with a total propane storage capacity of 5,000 USWG or less; or
 a facility with a fixed propane storage capacity of exactly 5,000 USWG and no more than 500 USWG of portable propane storage capacity on site.

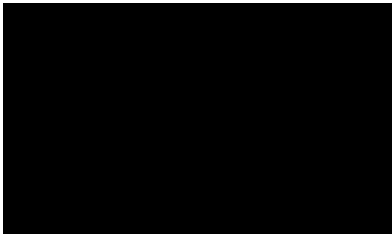
Failure to fully complete this form may result in rejection.
 Making a false statement may result in a fine or prosecution under the Technical Standards and Safety Act

Licence Number 000152392

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.

Company Name Unimin Canada Ltd Ontario Corporation No., if applicable _____

Operator Name (if different from above) _____

Telephone No. 705-877-2212 ext 269 Fax No. 705-877-3129 E-mail rdube@unimin.com

Street No. 260 Street Name / 911 Number / Address, if applicable Unimin Road

Town / City or Township / County Havelock Province ON Postal Code KOL 1Z0

Mailing address if different from above.

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

Location of facility.

Street No. 4795 Street Name / 911 Number / Address, if applicable County Road # 6 (Nephton)-Methuen Ward Con 9, Lot 14 Nearest Major Intersection Junction of County Road 44 and County Road 6

Town / City or Township / County Havelock Province Ontario Postal Code KOL 1Z0

Name of Licence Holder Unimin Canada Ltd.

Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT). Mr. Karol F. Horvat - VP Unimin Canadian Operations ROT type PPO # 3

Municipality (or municipalities if the facility or its hazard distance touches multiple borders)
Township of Havelock Belmont Methuen.

Hours of operation.

This document is valid until the next licence renewal date. You are required by law to notify TSSA of any change of information.

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Print name	Signature	Date (dd-mm-yyyy)
Name of Licence Holder <u>Unimin Canada Ltd.</u>		<u>04-01-2012</u>
Name of Senior Management person as defined in the Regulation holding the Record of Training <u>Mr. Karol F. Horvat</u>		<u>11/4/12</u>



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SECTION A: GENERAL INFORMATION (cont'd)

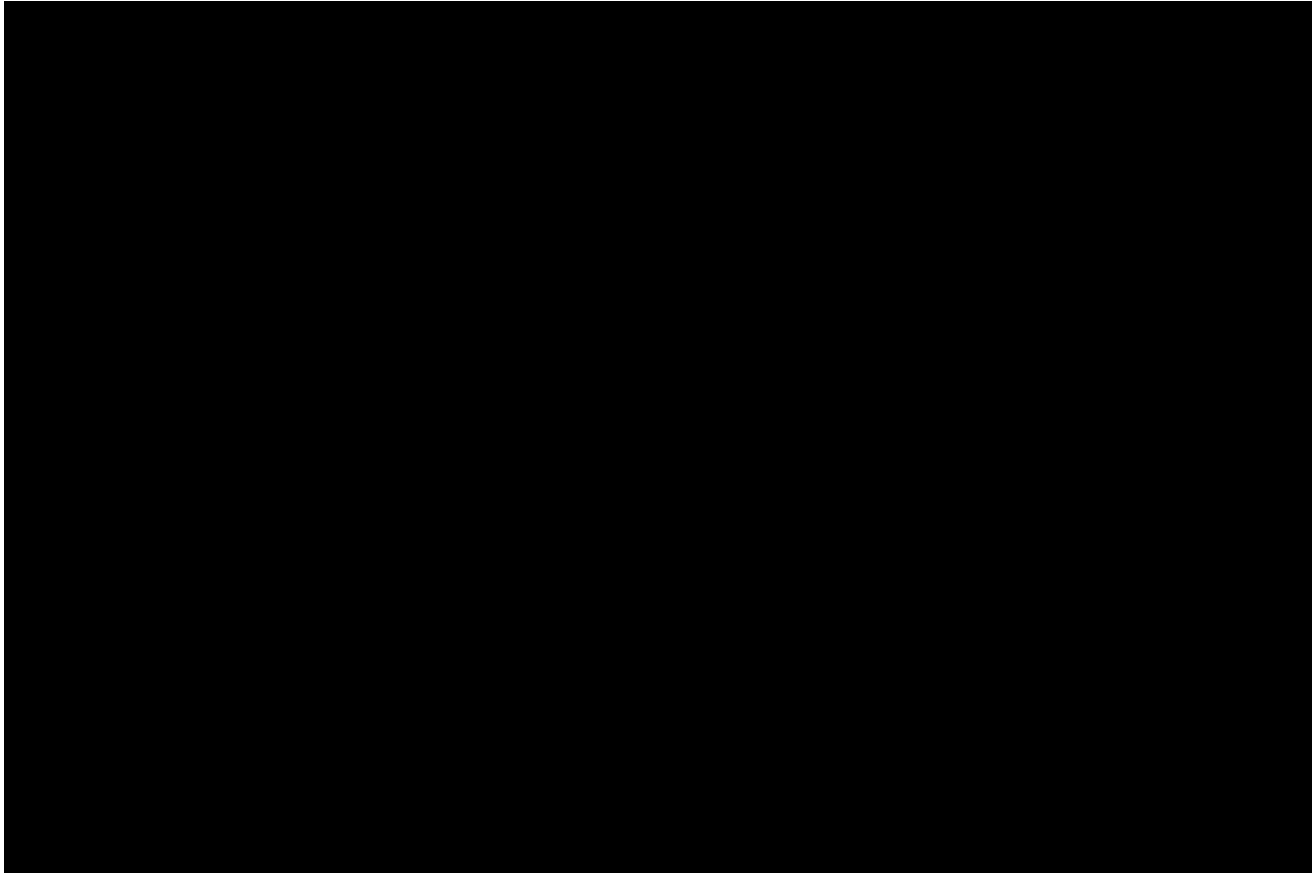
Indicate the year the facility was established. Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment.
1993 NA

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

	PSIG	Serial Number
Tank 1:	250	5.779896
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 USGW (horizontal) Portable: 440.7 USGW Mobile: 0



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Name of person completing this form (please print) Robert Dube	Official Title Safety & Health Superintendent	
Signature 	Telephone No. 705-877-2212 x 269	Date (dd-mm-yyyy) 03-01-2012



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SECTION A: GENERAL INFORMATION (cont'd)
Activity Information

Name of Propane Supplier(s) Superior Propane			
Street No. 6722	Street Name / 911 Number / Address, if applicable Highway No. 7, RR.5., P.O. Box 87		
Town / City or Township / Country Peterborough		Province ON	Postal Code K9J 6X5
Telephone No. 705-745-3285	Fax No.	Contact Name Mark Wakeford, Manager (Superior Propane 24/7 emergency contact ph # 1 877-873-7467)	
E-mail wakeform@superiorpropane.com			

Name of Propane Transporter. If same as above, please check box. <input checked="" type="checkbox"/>			
same as above			
Street No.	Street Name / 911 Number / Address, if applicable		
Town / City or Township / Country		Province	Postal Code
Telephone No.	Fax No.	Contact Name	
E-mail			

Off-site Cylinder and/or Mobile Storage NA	Capacity stored off-site, in USWG	For Office Use - Party No.
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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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.

- Propane horizontal tank for Lab and office heating 1750 USGW (593 feet)- Portable tanks 440.7 USGW
- Mineral Dryer Propane horizontal tanks (2 @ 30,000 USGW (1055 feet)
- Gasoline Dispensing, buried tank (10,000 litres) (667 feet)

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

- 3 fire hydrants supply water by Big Mountain Lake pumphouse
- 1 dry hydrant (Constructed in December 2011) supply water from the Nepton plant's Recycle Pond.

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.

- Manually applied Evacuation Alarm system within the Nepton Plant (Mill Central Control Room & Warehouse)
- Manually /fusible link emergency shut off at refill propane tank outlet supply line, tank protected by J Barriers and link fence, warning signs no open flame, no smoking. All flammable storage areas are equipped with fire extinguishers and signage.
- Nitrogen activated/fusible link emergency shut off at mineral dryer propane tanks, equipped with surveillance camera monitored within mill central control.

Maintenance and testing schedule for fire protection controls and devices.

- Superior propane maintains and test the propane refill tanks. Trent Security Annual Inspection and certification of manual evacuation system.
- Summit Mechanical maintains and test the mineral dryers propane tanks
- Manning Fire Equipment conducts monthly inspections and maintenance of plant fire extinguishers inventory.
- MSA maintains gas sensors at mineral dryers propane tanks

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

1. Contacts for Emergency Response

1. Facility Contact Personnel - Key Contact		5. Facility 24-Hour Contact Person	
Name Tom Armstrong	For Office Use - Party No.	Name Robert Dube	For Office Use - Party No.
Official Title Nephton Plant Operation Manager		Official Title Safety & Health Superintendent	
Telephone No. 705-877-2212 x 286	Fax No. 705-877-3129	Cell No. 705-760-5503	Fax No. 705-877-1985
E-mail tarmstrong@unimin.com		E-mail rdube@unimin.com	
Role and responsibilities in emergency Incident Commander- ensure evacuation and that contact with authorities are completed in a timely matter (communication with plant/mine radios)		Role and responsibilities in emergency coordinates site emergency evacuation plan, ensures contacts with authorities.	
2. Facility Contact Personnel - Alternate Contact		6. Name of Facility Manager	
Name Robert Marshall	For Office Use - Party No.	Name Robert Marshall	For Office Use - Party No.
Official Title NSO Plant Manager		Official Title NSO Plant Manager	
Telephone No. 705-877-2500 x 645	Fax No. 705-877-3129	Telephone No. 705-877-2500 x 645	Fax No. 705-877-3129
E-mail rgmarshall@unimin.com		E-mail rgmarshall@unimin.com	
Role and responsibilities in emergency Coordinates site emergency evacuation plan, ensures contacts with authorities.		Role and responsibilities in emergency Coordinates site emergency evacuation plan, ensures contacts with authorities. Unimin NSO Plant Manager	
3. Local Fire Services - Key Contact		7. Propane Supplier Key Contact Person	
Name Mr. Ray Haines	For Office Use - Party No.	Name Mark Wakeform	For Office Use - Party No.
Official Title Fire Chief - Havelock ON	E-mail	Official Title Superior Propane District Manager	E-mail wakeform@superiorpropane.com
Telephone No. 705-778-3183	Fax No.	Telephone No. 705-745-3285	Fax No.
Role and responsibilities in emergency Organizes fire protection services response for the Nephton plant facilities.		Role and responsibilities in emergency	
Fire Services Address Station #1 at 7 King St, Havelock and Station #2 at 3250 County Road 48		Propane Supplier Address 6722, Highway No. 7, RR.5. P.O. Box 87, Peterborough ON.	
4. Local Fire Services - Alternate Contact		8. Municipal Contact	
Name	For Office Use - Party No.	Name Linda Reed	
Official Title	E-mail	Official Title Municipal Administrator	
Telephone No.	Fax No.	Telephone No. 706-778-2308	Fax No. 705-778-5248
Role and responsibilities in emergency		E-mail havbelmet@hbmtwp.ca	
Fire Services Address		Municipality Name and Address The Corporation of the Township of Havelock-Belmont-Methuen.	

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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.

Nephton's Propane Environmental Emergency (Propane E2 Plan) - revised Dec.07, 2011- annual review by Nephton Employees
Gas sensors were installed at the mineral dryer tanks installation in 2011. Plan to provide actuation of the mineral dryer propane tanks emergency shut off from the mill central control rooms are in progress (OPCODE to install LPC system early 2012.)

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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) 13-07-11	Print Name of Training Provider: Robert Dube, Safety Health Superintendent
	Print Name of Instructor: Robert Dube
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) 12-07-11	Print Name of Training Provider: Brian Larmer - Safety Supervisor
	Print Name of Instructor: Brian Larmer
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) 21-01-2011	Print Name of Training Provider: HRS Group Services-705-749-1259- Peterborough, ON.
	Print Name of Instructor: Mr. Dan Beal
Training Date (dd-mm-yyyy) 11-02-2011	Print Name of Training Provider: HRS Group Services-705-749-1259- Peterborough, ON.
	Print Name of Instructor: Mr. Dan Beal
Training Date (dd-mm-yyyy) 13-04-2011	Print Name of Training Provider: HRS Group Services-705-749-1259- Peterborough, ON.
	Print Name of Instructor: Mr. Dan Beal

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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) 28-02-2012	Print Name of Training Provider: Unimin Safety Department (review of Dec.07, 2011 revised E2 Plan)
	Print Name of Instructor: Robert Dube
Target Date (dd-mm-yyyy) 15-07-2012	Print Name of Training Provider: Unimin Safety Department (Annual Evacuation Drill)
	Print Name of Instructor: Robert Dube
Target Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

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

Target Date (dd-mm-yyyy) 15-02-2012	Print Name of Training Provider: Unimin Safety Department
	Print Name of Instructor: Robert Dube
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) 15-05-2012	Print Name of Training Provider: HRS Group Services-705-749-1259- Peterborough, ON.
	Print Name of Instructor: Mr. Dan Beal
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:

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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).
In the event of an emergency, the plant manual alarms (sirens) are actuated, the mill supervisor on shift would phone 911 and provide the necessary information for the plant location. A headcount would be conducted at the assembly points to ensure that all employees have reported to the evacuation alarm. The Mill Supervisor would assign an employees to the Nephton entrance security gate to await fire protective services arrival and provide information.

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 incident commander will coordinate the evacuation plan and ensure that EMS and authorities are contacted, the Nephton E2Plan provides an outline responsibilities and duties of the supervisor in charge of the evacuation. Assembly points are located with the plant product warehouse, or alternate assembly points are in the machine shop and the sheet metal/truck shop.

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).
All phone locations have the Nephton Emergency Services Contact Number postings. All Nephton employees are trained annually in emergency procedures. E2Plan has a checklist to record the plant contacts with emergency services, copies of Propane E2 Plan is located within the Nephton security gate house, safety office and are issued to supervisors.

Describe provisions for fire department entry when there are no operations or staffing at the propane site.
Plant has 24/7 operations, should the plant be unmanned, Unimin contracts security services to patrol the plant and have both land phone and mill and mine radios. The gate house has the Nephton Emergency Contact Numbers posted and security guards are provided with site orientation that includes emergency response plan. Plant management has company assigned cell phone for site emergency contacts.

Describe how the licence holder will ensure continual flow of updated information to authorities.
Fire Chief Ray Haines, and fire volunteers are provided with copies of the Nephton Propane E2 Plan. They are provided with site tours which include a review of Nephton emergency evacuation procedures and fire protection systems.

How long will it take the facility liaison person to respond to the site.
Fire Chief Haines indicates that there is a 25 minute response time to the facility (pers. comm. November 2011).

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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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" 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)	<u>237 m (Dry Hydrant)</u>	
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)	<u>237 m (Dry Hydrant)</u>	

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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

Yes No

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

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

Dry hydrant installation at Nephton plant was inspected and approved by Mr Ray Haines on 14 December 2011.

Copy of the Nephton Propane Environmental Emergency Plan (E2Plan) was received and reviewed by fire department.

Fire services comments, if any:

Nephton Dry Hydrant to be tested in spring of 2012.

To be completed by the Licence Holder

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

The safety department will coordinate the testing of Nephton dry hydrant with Mr. Ray Haines.

The licence holder will respond to the Local Fire Services comments by: NA

(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 <u>Mr Ray Haines Fire Chief for HBM</u>		<u>03/01/2012</u>

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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.

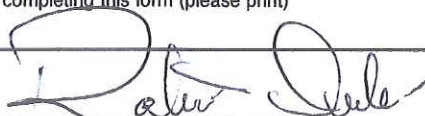
The licence holder will submit a scaled aerial map of the surrounding area showing the following information:

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) <u>04-01-2012</u>	Capacity of single largest propane storage vessel (USWG) <u>2000 USWG</u>
Tank setback coordinates. Indicate placement on the map.	
Front: <u>~1765 metres</u>	Right side property line: <u>~1045 metres</u>
Rear: <u>>1000 metres</u>	Left side property line: <u>~761 metres</u>
GPS coordinates of single largest vessel: <u>262 135 mE, 494 595 mN Zone 18</u>	

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SECTION C: SUBMISSIONS (cont'd)

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

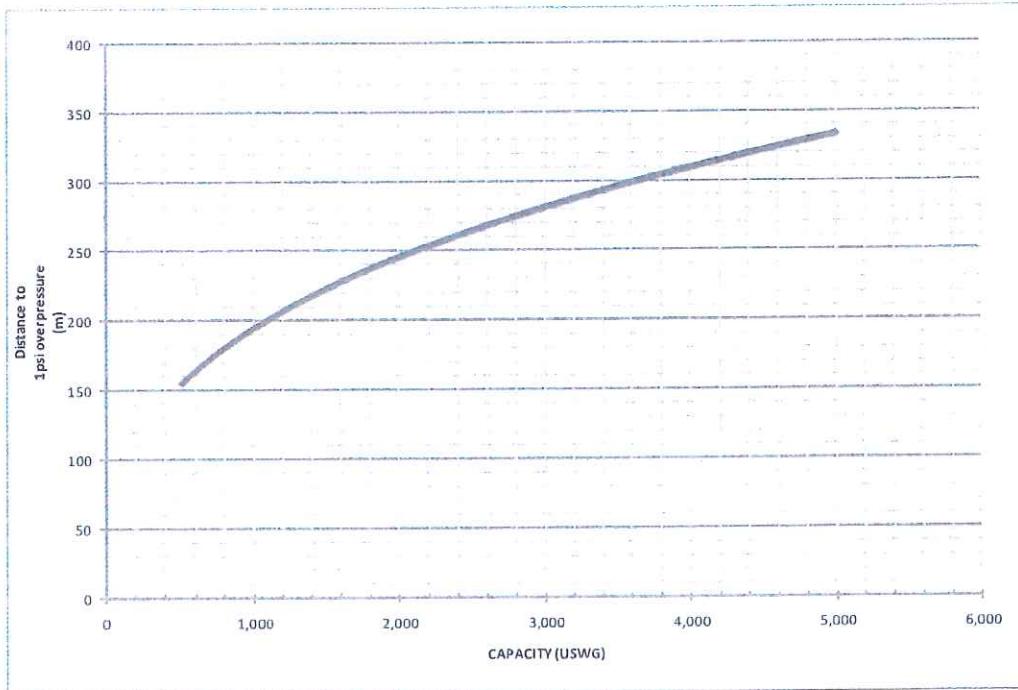
Table 1: Distance Table

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)





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

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>Nephton Industrial Mineral processing facility</u> Address: <u>4795 County Road 6</u> City: <u>Havelock</u> Province <u>ON</u> Postal Code <u>K0L 1Z0</u>				x	<u>9</u> m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. Name: <u>N/A</u> Address: _____ City: _____ Province _____ Postal Code _____					_____ m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>N/A</u> Address: _____ City: _____ Province _____ Postal Code _____					_____ m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: <u>N/A</u> Address: _____ City: _____ Province _____ Postal Code _____					_____ m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons. Name: <u>N/A</u> Address: _____ City: _____ Province _____ Postal Code _____					_____ m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: <u>N/A</u> Address: _____ City: _____ Province _____ Postal Code _____					_____ m

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

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>Robert Dube</u>	Official Title <u>Safety & Health Superintendent</u>
Signature 	Telephone No. <u>705-877-2212 x 269</u>
	Date (dd-mm-yyyy) <u>03/01/12</u>



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WORKSHEET

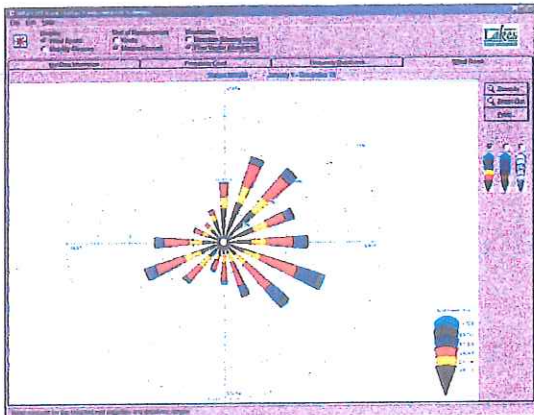
Portable Storage Additional Information Worksheet

Cylinder Size	Capacity in USWG	Quantity	Total Volume in USWG
# 420	123.9		
# 100	29.5	25	177.0
# 40	11.75		
# 33.3	9.62	6	240.5
# 30	8.8		
# 20	5.8	4	23.2
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity 440.7 USGW			

Tanks Stored On-site Not Connected for Use

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

Total Cylinder Capacity	
Total Tank Capacity	
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	



Wind Rose - Shows that predominant wind direction is blowing NE to SE based on 5 year met data

22000

17000

12000

7000

2000

Propane cylinder refill tank
GPS coordinates:
262 135 mE
494 595 mN
(Zone 18)

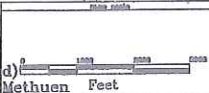
Circle showing
the distance to 1
psi overpressure
(246 m or 806-ft)
for the propane
cylinder refill tank

Security Gate

MAP PREPARED: 30 Jan 2012



UNIMIN CANADA LTD.
4705 County Road #8
Havelock, ON K0L 1Z0
Lot 14, Con 9 (Methuen Ward)
TWP of Havelock- Belmont-Methuen



Nearest seasonal residence
zoning and some off-shore
islands situated along western
shore of Kasshabog Lake.
Depicted here to show potential
risk in the event of an
Environmental Emergency.

Municipal Contact:
Corporation of the Township of
Havelock-Belmont-Methuen
Municipal Administrator - Linda Reed
1 Ottawa Street East, Havelock, ON
Tel: 705-778-2308
Email: havbelmet@hbmtp.ca

NOTE: THIS IS NOT A PLAN OF SURVEY
THE BOUNDARY INFORMATION SHOWN HAS BEEN
COMPILED FROM OTHER SOURCES AND HAS NOT
BEEN CORRECTED OF THE GROUND

Grid Lines at 5000 ft intervals
Grid Lines at 1524 m intervals

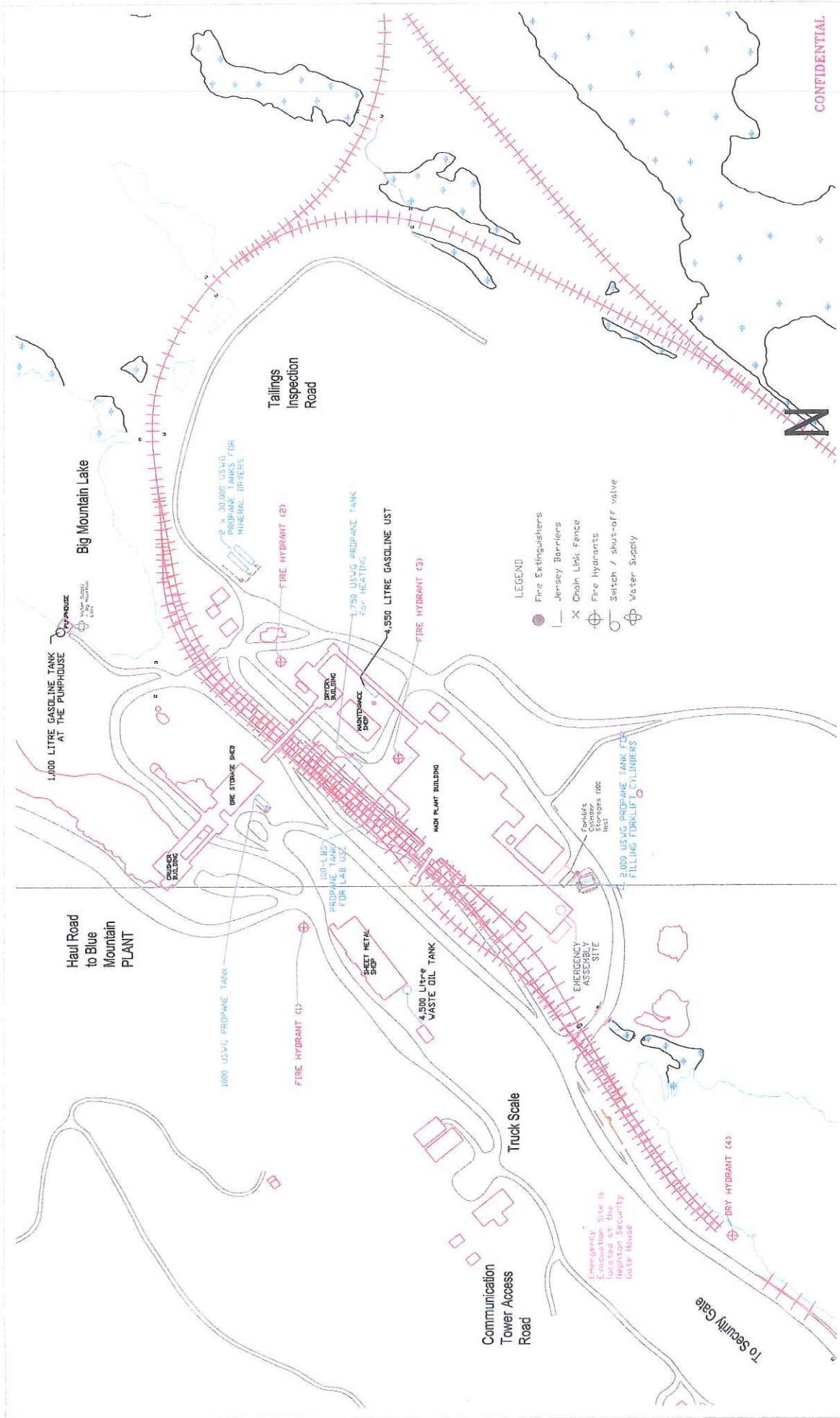
16000

21000

REV	DATE	MADE BY	DESCRIPTION
1	11/09/13	CW	Add distance to correction
2			
3			
4			

DATE	ISSUED BY	CHANGED	APPROVED	MAP SCALE	SCALE	PROJECT NUMBER
02-29-08	ERS				1:1000	

NEPHELINE SYENITE OPERATIONS
NEPHTON Propane Cylinder Refill Center
Map of Surrounding Area



CONFIDENTIAL

DATE: 2014-08-15	SCALE: 1:1000	PROJECT: Nepheline Syenite Operations
DRAWN BY: [Name]	REVISED BY: [Name]	TSSA - RSMP Level 1
CHECKED BY: [Name]	APPROVED BY: [Name]	Propose Refill Facility
DATE: 2014-08-15	SCALE: 1:1000	Detailed Site Plan

UNIMIN
 UNIMIN CORPORATION
 1000 WEST 10TH AVENUE
 DENVER, CO 80202
 TEL: 303.733.1000
 WWW.UNIMIN.COM