



Project Specific Information Package Corunna Storage Terminal – Approval to Store Hydrocarbons in Salt Solution Mined Caverns

Pembina Infrastructure and Logistics LP ("Pembina"), has made an application to the Ontario Ministry of Natural Resources and Forestry ("MNRF") and the Ontario Energy Board ("OEB") to:

- convert Cavern 45 in 2015 by abandoning the current entry well and drilling two new entry wells.

The *Oil, Gas and Salt Resources Act, R.S.O. 1990, c P.12* requires parties whose rights may be directly and/or adversely affected by the nature and extent of proposed projects to be consulted and/or notified of project specific details.

1598313 Alberta Ltd. is a wholly owned subsidiary of Pembina Pipeline Corporation and is the general partner of Pembina Infrastructure and Logistics LP. Pembina Pipeline Corporation ("Pembina") is a leading pipeline transportation and midstream service provider that has been serving North America's energy industry for over 60 years. As a trusted member of the communities in which we operate, Pembina is committed to safe, responsible and reliable operations.

Project Description

Pembina is committed to sharing information on its planned projects so landowners, residents, occupants, Crown disposition holders, local and urban authorities, Aboriginal communities and other groups or individuals with interests in the area are informed of the proposed activities.

The following table summarizes Pembina's plans regarding the above noted Project. If you require any additional information or would like to talk with a [Pembina representative regarding this Project, please do not hesitate to call a Pembina representative listed in the Contacts Section of this information package.

Location	The Corunna Storage Terminal is located in Concession XI and XII, Lot 23 and 24, Moore Township – County of Lambton. A map showing the Project location is attached.
Project Description	Cavern 45 will be a single cavern with two (2) entry wells (Wells BR-45 and HC-45). One well will be used for injecting and removing brine while the other well will be used for injecting and removing hydrocarbons. The installation of two wells into a cavern provides for greater efficiencies in flow, pump horsepower and operation. Upon completion of drilling the two entry wells, Cavern 45 is proposed to store hydrocarbons as per CSA Z341.2: Storage of Hydrocarbons in Underground Formations. Pending regulatory approval, Wells BR-45 and HC-45 will be drilled into the B2 salt formation. Surface casing will be run and cemented on the circumference of the Wells BR-45 and HC-45 to protect groundwater aquifers. Wells BR-45 and HC-45 will both be drilled to approximately 600 mKB with the production casing cemented from 600 mKB to surface to isolate all formations.

Cavern 45

Project Need	This application is in response to a new business development and compliments Pembina's overall business model for the extraction, fractionation, storage, transportation and marketing of liquefied petroleum gases ("LPGs"). In addition to being used as feedstock for refineries and petrochemical facilities, LPGs are also used by the general public throughout North America for home heating and cooking. The economic impact of this growth has a direct correlation to jobs critical to the public in Ontario. The intention is to fully utilize the cavern space over the next 15 years to the mutual benefit of Pembina's stakeholders and the general public.
Substance Type	It is proposed that Cavern 45 will be utilized to store propane.
Project Schedule and Duration	Pending regulatory approval, drilling of Wells BR-45 and HC-45 is to occur in Q2 2017 and will last approximately 20 days, per well. Pembina anticipates Cavern 45 becoming operational in late 2017.
Traffic	As with any construction project, Pembina expects some construction noise associated with drilling the Wells BR-45 and HC-45 as well as increased traffic in the area during construction due to the movement of equipment and construction personnel to and from the construction sites. The increase in traffic will be minimal and temporary.
Noise	If there are concerns regarding excessive noise during construction they should be reported to one of the contacts listed at the end of this information package.
Setbacks	As with all facilities, there are minimum setback distances required between an energy facility and a dwelling, public facility, rural housing project or urban centre. Setbacks prevent populated areas from developing too close to energy facilities and prevent energy facilities from getting too close to people. Wells BR-45 and HC-45 will be drilled within Pembina property boundaries and will not impact or create any setbacks on adjacent lands.
Odours/Emissions	Pembina does not expect any odours from drilling activities associated with the Project. Possible intermittent emissions may originate during drilling from diesel electric power generation, heavy duty diesel vehicles and normal light duty gasoline vehicles. We ask that any unusual odours be reported immediately to our local operations representative or our 24-hour emergency number, 1-519-862-3561. We will promptly investigate and ensure any problems are corrected.
Continuous Venting/Flaring	There will be no continuous permanent flaring associated with Cavern 45. Temporary flaring will only occur as part of routine maintenance operations, or infrequently as a safety measure during an unexpected event.
Emergency Response Plan	Pembina is committed to protecting the health and safety of the public as well as of its employees and contractors. Operations will be conducted in strict accordance with good oilfield practices and in compliance with all applicable technical and safety standards and regulations. Pembina personnel are trained to recognize hazards and deal with emergency situations, so that any abnormal situation that might arise can be quickly detected and corrected. Pembina currently has an Emergency Response Plan ("ERP") in place for its Corunna Terminal. A hazard area will be modeled for the new cavern, and the information will be added to the existing ERP. Area stakeholders will be advised of emergency response procedures and public protection measures.

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Safety	<p>Pembina encourages a workplace that is dedicated to protecting the safety of the public as well as its employees and contractors. We reinforce our commitment to safety excellence in our daily operations through the development of stringent standards, regular safety meetings, extensive contractor screening and project inspections.</p> <p>Pembina has a strong reputation for constructing and operating facilities designed to meet safety guidelines and regulations.</p>
Environment	<p>Pembina will ensure all applicable environmental notifications and approvals are completed and obtained prior to construction, and will adhere to all associated regulatory conditions.</p>

Additional Information

Thank you for taking the time to read this handout. If you have questions or concerns, please do not hesitate to contact the Pembina representative listed in the Contacts Section below. Through ongoing consultation with landowners, local and Aboriginal communities, and other interested stakeholders, we can address Project-related questions and concerns and, more importantly, use this feedback to improve our activities during the development, construction, and operation of the Project.

You are encouraged to contact Pembina or the MNRF/OEB directly through their website or by telephone to obtain additional information pertaining to oil and gas operations.

Ministry of Natural Resources and Forestry

659 Exeter Road

London, Ontario N6E 1L3

Toll Free Phone: 1-800-667-1940

Website: <https://www.ontario.ca/ministry-natural-resources-forestry>

or

Ontario Energy Board

Applications Division

PO Box 2319

#2700, 2300 Young Street

Toronto, Ontario M4P 1E4

Toll Free Phone: 1-888-632-6273

Website: <http://www.ontarioenergyboard.ca/OEB/>

Contacts

If you have questions or concerns, please do not hesitate to call the Pembina representative listed below. If you are calling outside of business hours, please leave a message and your call will be returned in a timely manner.

[Name], [Job Title] directly at [Phone Number] or e-mail [e-mail address]

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Alternatively, you can write to:

Pembina Pipeline Corporation

4000, 585 – 8th Ave SW

Calgary, Alberta, T2P 1G1

Pembina 24 Hour Emergency Number: 1-800-360-4706

Call or click before you dig

Personnel are required to call area One Call Centres for information prior to any ground disturbances along an occupied ROW or where underground facilities may be present.

For assets where Pembina is the owner and the operator of underground infrastructure, Pembina is a member of the One Call Centre applicable to those assets.



Alberta One Call Corporation
1-800-242-3447
www.alberta1call.com

British Columbia One Call
1-800-474-6886
www.bconecall.bc.ca

Saskatchewan 1st Call
1-866-828-4888
www.sask1stcall.com

Manitoba
www.callb4udig.mb.ca

Ontario 1 Call
1-800-400-2255
www.on1call.com

Texas 811
811 or 1-800-344-8377
www.texas811.org

North Dakota One Call
811 or 1-800-795-0555
www.ndonecall.com

Virginia 811
811 or 1-800-552-7001
www.va811.com