



Canada



Fast, Frequent, Convenient

COMMUNITY UPDATE NO. 7 – January 2014

## ASSEMBLY OF THE TUNNEL BORING MACHINE BEGINS IN PORT MOODY



Assembly of the tunnel boring machine is taking place at the north tunnel portal launch site.

The tunnel boring machine (TBM) has arrived at the north tunnel portal, located west of Barnet Highway at View Street in Port Moody. It will take two months to assemble, and the TBM will begin boring in March 2014. The TBM is expected to progress an average of eight metres a day as it bores the two kilometre tunnel to Burquitlam. Bored tunnel construction means there is no disruption to residents, businesses and traffic on the surface above. It is expected to take just under a year before the TBM breaks through at the tunnel portal located just south of Kemsley Avenue on the west side Clarke Road.

### Fun Facts

- The TBM itself is 11-metres long, but extends to 85 metres (longer than an Olympic-size swimming pool) when attached to the TBM trailing gear
- The head of the TBM weighs 109 tons which is comparable to 28 full-grown elephants
- The TBM weighs 1,100 tons
- The TBM trailing gear uses a conveyer belt system to remove tunnel spoils and assists in the installation of concrete tunnel liner rings

### IN THIS ISSUE:

- Upcoming Construction Schedule For 2014
- Construction Of Inlet Centre Station Breaks Record
- Firewood Sale Raises Over \$1,000 For Share Family & Community Services

## EVERGREEN LINE CONSTRUCTION ON TRACK AND ON SCHEDULE



*The launching truss is assembled in Burquitlam to prepare for the installation of the first elevated guideway segment.*

The Evergreen Line Project marked several major milestones in 2013 with construction of the first guideway columns, the arrival and assembly of the tunnel boring machine and the assembly of the launching truss that will lift the concrete guideway segments into position.

Construction is on schedule, and the project is on track to open in mid-2016. As work continues along the route, the Evergreen Line Project is committed to keeping the community informed about construction activities. For detailed construction updates, please visit our website at [www.evergreenline.gov.bc.ca](http://www.evergreenline.gov.bc.ca).

### Burnaby-Burquitlam

Construction is ongoing at Lougheed Town Centre Station to expand and upgrade the station and to build the guideway connection for the Evergreen Line. While work is underway, SkyTrain and bus service will continue to operate at the station and the transit exchange.

On North Road, construction of guideway columns will be followed by the installation of the elevated guideway. The launching truss has been assembled at the northeast corner of Como Lake Avenue and Clarke Road in Coquitlam. The truss will be used to lift the concrete guideway segments into place. It will make its

way down Clarke Road and North Road moving from column to column and arrive at North Road and Gatineau Place in mid-summer 2014. The truss will then



*The launching truss moves guideway segments into position on the northeast corner of Como Lake Avenue and Clarke Road in Coquitlam.*

be disassembled and transported to Coquitlam Central Station where it will be reassembled to construct the elevated guideway along Pinetree Way.

- Near North Road and Gatineau Place, some lane closures and northbound traffic detours will be required at night in February and March as crews work on a special, curved structure of the guideway where it comes out of Lougheed Station and turns north up North Road.
- At Burquitlam Plaza Station, construction will ramp up after the guideway is assembled through the station area. Station construction is expected to be ongoing until mid-2015.

## Port Moody

In west Port Moody, construction of the transition tunnel underneath Barnet Highway was completed last year and the focus of construction has now turned to preparing for the launch of the tunnel boring machine (TBM). Construction will also continue east along the existing rail corridor and foundation work for the guideway is well underway.

- The TBM is being assembled at the north tunnel portal in preparation for the start of boring in March.
- Along the rail corridor, construction will continue on the foundations for the ground-level and elevated sections of the guideway.
- At Moody Centre Station, changes to the bus loop and park-and-ride lots have been completed and the excavation and foundation work has begun. The guideway and station construction at Moody Centre Station is scheduled to be complete in mid-2015.

- Construction of a portion of the station guideway and platform for Inlet Centre Station underneath the Barnet Highway was completed in November 2013 (please see story on Page 4). Station and guideway construction is scheduled to continue through mid-2015.

## Coquitlam-Pinetree

In northeast Coquitlam, activity for the Evergreen Line will ramp up in 2014 with construction of Coquitlam Central Station, Lincoln Station and Lafarge Lake–Douglas Station. Work will also begin on the piled foundations, columns and elevated guideway that will run alongside Aberdeen Avenue and Pinetree Way.

- In November 2013, crews began foundation work at the Lafarge Lake-Douglas Station. Work on Coquitlam Central Station and Lincoln Station is also underway and will also include utility relocations, excavation, piled foundations and

column construction. This work will be ongoing until late 2015.

- Starting in February, crews will begin construction of the columns in Coquitlam along Pinetree Way. Construction of the columns for the guideway includes utility relocations, excavation and piled foundations.
- Once columns are complete, crews will begin construction of the elevated guideway. The elevated guideway segments will be built using a launching truss. The truss will lift the concrete segments into place and join them together once they are in position. This work will take place in the fall of 2014 and work will be ongoing into early 2015.
- Once construction of the elevated guideway is complete, crews will install track and power systems and this work will be ongoing until late 2015.



The tunnel boring machine's trailing gear uses a conveyor belt system to remove tunnel spoils and assists in the installation of concrete tunnel liner rings.

## CONSTRUCTION OF INLET CENTRE STATION STRUCTURE BREAKS RECORD, BARNET HIGHWAY RE-OPENS AHEAD OF SCHEDULE

Inlet Centre station will have two entrances on either side of the intersection at Barnet Highway and Ioco Road, and the station platform will be built underneath the Ioco Bridge. The station design responds to the community's desire to have a station that is not elevated. To build Inlet Centre Station, crews needed to construct a portion of the station guideway and platform underneath the Barnet Highway. To minimize traffic disruptions and extensive night work, the Evergreen Line Project closed a section of Barnet Highway, between Dewdney Trunk Road and the Ioco Road, over the Remembrance Day long weekend.

Over that weekend, 30 hydraulic jacks were used to slowly push the massive structure under the highway, setting a record for the largest structure ever jacked in Canada.

An extensive community relations program was implemented to ensure that residents and businesses were aware of the Remembrance Day weekend highway closure, detour routes and that access to all businesses would be maintained.

Crews worked around the clock to ensure the highway could be opened in time for the next rush hour on Tuesday morning and the Barnet Highway was re-opened Monday evening eight hours ahead of schedule.



Crews use a bank of hydraulic jacks to push a massive concrete box under the Barnet Highway. A video showcasing this innovative construction is available on the project's website and Facebook page.

## FIREWOOD SALE RAISES MORE THAN \$1,000 FOR SHARE FAMILY & COMMUNITY SERVICES

As with many large construction projects, the removal of some trees is required along the Evergreen Line alignment. In November, trees were removed on the west side of Pinetree Way to accommodate construction of the guideway and Lincoln Station. (Trees removed will be replaced and planted in new locations to be determined by the City of Coquitlam and the Evergreen Line Project).

On Saturday, November 23 a portion of the trees were sold as green firewood and proceeds went to SHARE Family & Community Service. SHARE is a nonprofit organization assisting residents of the Tri-Cities that offers a variety of programs and services. The firewood sale was a success and more than \$1,000 was donated to SHARE Family & Community Services. The Evergreen Line Project Team would like to extend a thank you to the volunteers who helped with the firewood sale and to the community for their generous support.



Members of the Evergreen Line Project Team bundle up and volunteer at the firewood sale.

### FOR MORE INFORMATION

If you would like to learn more about the Evergreen Line Project or have your name added to the information email subscription list, please visit the Project Office (2900 Barnet Highway, Coquitlam) weekdays from 8:30 am to 4:30 pm or contact us:

Email: [info@evergreenline.gov.bc.ca](mailto:info@evergreenline.gov.bc.ca)

Phone: 604-927-4452

Website: [www.evergreenline.gov.bc.ca](http://www.evergreenline.gov.bc.ca)

 [www.facebook.com/evergreenline](http://www.facebook.com/evergreenline)

 [@TranBC](https://twitter.com/TranBC)

