

# SUMMER 2016 CONNECTION



Sean Furey

## Hello Neighbours and Friends,

It was a busy spring at Genesee Station as we worked through a planned turnaround of Unit 2. All the work performed by approximately 620 contractors and staff was completed safely, and I'm pleased to say we had only one medical aid and zero environmental incidents.

Over the summer, the entrance to Genesee Station will be relocated just north on Highway 770, as we continue preparatory work for the Genesee 4 & 5 Project. While no significant traffic disruptions are anticipated on Highway 770 during construction, we ask you to please drive with caution and slow down through the construction zone.

I'm also happy to let you know that the intersection at Highway 627 and 770 has now been upgraded. We worked closely with

Alberta Transportation and TransAlta to ensure public safety concerns were addressed with the installation of traffic lights, resulting in a much safer intersection. The intersection is anticipated to be fully operational by the end of July.

Have a safe and happy summer!

Sincerely,

A handwritten signature in black ink, appearing to read 'Sean Furey'.

**SEAN FUREY, Plant Manager**  
Genesee Generating Station, Capital Power

## TURNAROUND STATS

- 22.5 days
- approximately 500 contractors on site each day (120 employees involved with the turnaround)
- 1 medical aid, 9 minor first aids (0 employees) and 0 environmental incidents
- 193,000 people-hours of work were completed
- 4 personnel were removed from site for unsafe driving

## GENESEE STATION

BOX 20, SITE 2, RR #1  
WARBURG, ALBERTA T0C 2T0 CANADA

## Construction Underway on New Genesee Station Entrance



A new mechanical shop was completed this spring.

Preparatory site work continues this summer for the Genesee 4 & 5 Project (to be located east of Genesee 3).

As required by Alberta Transportation, the Genesee Station entrance will be relocated north on Highway 770 to align with the Genesee Mine entrance. This requires the construction of a new intersection.

**Timeline:** Construction of the new intersection and station entrance began in June with completion anticipated for mid-August. **Expect to see flag people and road signage as per Alberta Transportation regulations.**

Read more about the Genesee 4 & 5 Project at:

<http://www.capitalpower.com/generationportfolio/CA/Genesee/Pages/G4and5.aspx>

## Reclamation Front-And-Centre At Genesee Mine Tour

On June 29, the public gathered at the 2016 Genesee Mine tour for an evening of delicious food, enormous trucks and powerful draglines.

Hosted by Capital Power and Westmoreland Coal, 250 community members of all ages toured the Genesee Mine and Genesee Station area on six school busses, where they learned about the work at the mine and Capital Power's leading edge reclamation and reforestation practices. The mine supplies roughly 5.5 million tonnes of coal per year to the three existing generating units at Genesee Station (~15,500 tonnes per day).

Several attendees have a rich history with the mine lands, making this tour personal for many. "I was raised just over that hill," explained one guest. Although many residents

drive past the mine daily, this was the first opportunity they had to experience the site up close.

Local residents saw productive farmland and wildlife habitat that has replaced the former active mine sites. During the tour, attendees learned about our commitment to protecting and enhancing biodiversity by varying the natural landscapes. For example, Genesee reclamation areas contain sites for cattle grazing, crop growing and wetland areas to attract birds and water fowl.

The highlight of the tour was the Marion 8750 dragline that, up until five years ago, was the largest in the world. Those on the tour marvelled at the 15 million pound behemoth which has a bucket volume equivalent to the size of a two-car garage, the 128 metre long boom and "house" (i.e. the command centre) the size of a school gymnasium.

For Capital Power and Westmoreland employees, the evening was an invaluable opportunity to tap into the close-knit community that exists around Genesee Station, and a reminder of the importance of actively engaging and building relationships with those in the communities that we work.

In 2015, we reclaimed 115 acres at the Genesee Mine, bringing the 25-year total to 2,355 acres/953 hectares. This previously-mined area is now 100% productive farmland and wildlife habitat. The Alberta Energy Regulator (AER) carried out field audits of Capital Power's reclamation certificate applications in the Genesee Mine in 2015. The audit process went well and we expect to continue to receive final reclamation certificates throughout 2016.



Forester Eckehart Marenholtz speak about our leading edge reclamation practices.

## 2016 Genesee Mine Tour



Forester Eckehart Marenholtz speaks about our leading edge reclamation practices.



Atop the Genesee viewpoint, a local area resident points to the cooling pond and recalls memories of the past.



Tour attendees get an up-close view of the 15 million pound Marion 8750 dragline.



At the Genesee viewpoint, attendees read about the station and mine, and check out a decommissioned mining truck.



Tour attendees dwarfed by a mining truck tire.



Eckehart Marenholtz provides tour attendees with spruce seedlings to close out the tour.

## 2016 Genesee Mine Tour



Land Management Coordinator Jennifer Tkachuk speaks about reclamation with tour attendees.



A bus heads out on RR 30 to start the tour.



Outside Genesee Hall, attendees enjoy a BBQ feast provided by local caterer Maureen's Desserts prior to the tour.



Capital Power and Westmoreland Coal employees ham it up prior to the tour.



### Hwy 770/627 Intersection Construction Complete

Construction is now complete on an upgrade to the intersection at Highway 627 and Highway 770 (both classified as Level 3 collector highways).

Public safety concerns for the intersection, including a fatal collision in late 2013, led Capital Power to hire an engineering consultant to perform a traffic impact study. The report identified concerns regarding traffic operations, congestion and unsafe practices at the intersection.

In response, Capital Power, TransAlta, Alberta Transportation and AltaLink contributed to the cost of necessary improvements to the intersection, including the installation of lights. The intersection is anticipated to be fully operational by the end of July.

## Our Very Own Genesee Bee Herders



On June 9, our Land Management Team (George Greenhough and Jennifer Tkachuk – also part-time bee herders), donned their bee suits to move a colony that had temporarily set-up shop right outside of Genesee Station.

Since their original home was too crowded, the queen gathered half the colony and set out looking for a new home. Typically, the scouts would be sent to find a permanent location. However, George and Jennifer did the scouting for the bees, performing the relocation by sealing them in a box, placing them in a truck under the tonneau cover and driving them to a local farm.

“Whether we’re herding cattle, tending bees or doing any of the many activities necessary here, there’s never a dull moment managing the land at Genesee,” said Jenn.

### WHAT IS IMPORTANT TO YOU?

If you have an idea or suggestion for the Genesee Connection Newsletter, contact Community Engagement and help us continue to provide relevant information of interest to you.

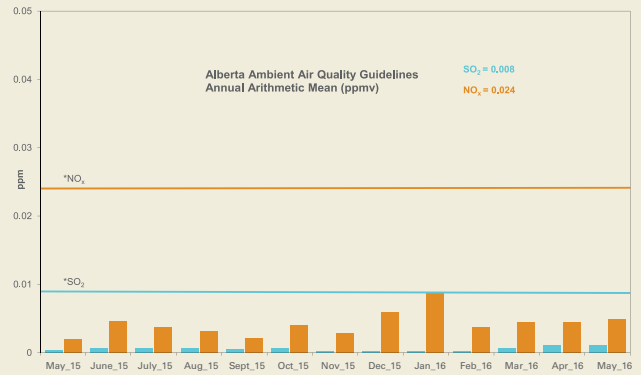
## Genesee Station Environmental Performance

The following graphs show the most recent environmental performance results:

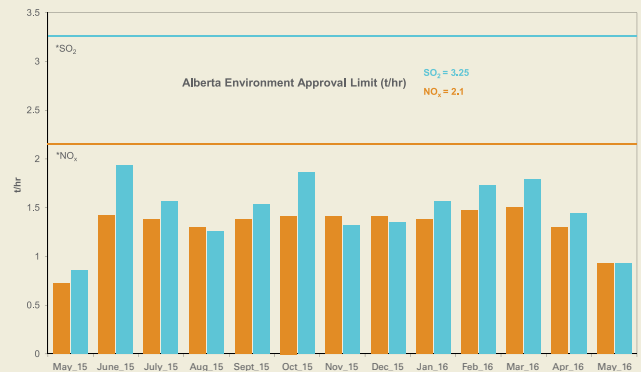
- ▢ Ambient air quality as measured by the Genesee ambient air monitoring trailer;
- ▢ Stack emissions for stack one (for generating units 1 and 2);
- ▢ Stack emissions for stack two (for generating unit 3).

Measurements are compared to guidelines and approval limits set by Alberta Environment. Genesee continues to operate below maximum levels set for ambient air quality and stack approval limits.

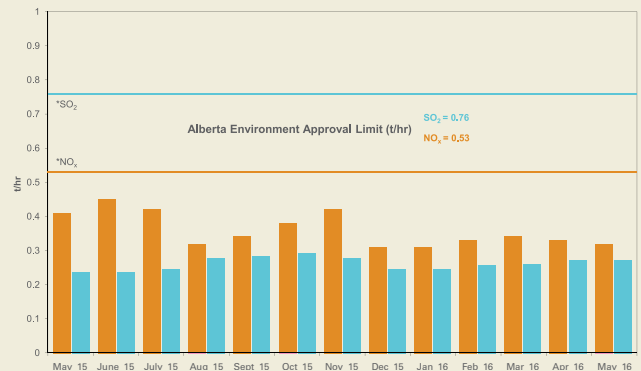
### AMBIENT EMISSION LEVELS



### G1/2 EMISSION LEVELS



### G3 EMISSION LEVELS



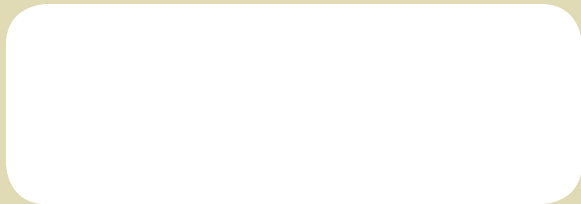
**\*Sulphur Dioxide (SO<sub>2</sub>):** a strong smelling, colourless gas that is formed by the combustion of fossil fuels. In high concentrations, SO<sub>2</sub> is known to be harmful to vegetation and human health. SO<sub>2</sub> is soluble in water and excessive levels can lead to sulfuric acid deposition or acid rain.

**Nitrogen Oxides (NO<sub>x</sub>):** the term used to describe NO (nitrogen oxide), NO<sub>2</sub> (nitrogen dioxide) and other nitrogen oxides. The major sources of man-made NO<sub>x</sub> are high temperature combustion processes, such as those occurring in automobiles and power plants. When concentration is high, NO<sub>x</sub> is of concern because it contributes to ground level ozone or smog.

G1/2 and G3 graphs show mass emissions. Genesee 3 approval limits for stack mass emissions are based on a 720 hour rolling average tonnes per hour, while Genesee Unit 1 and 2 (with a shared stack) mass emissions approval limits are based on simple tonnes per hour. As of February 1st 2016, Genesee 3 approval limits for SO<sub>2</sub> and NO<sub>x</sub> emissions were reduced from 0.76 t/hr to 0.36 t/hr, and from 0.53 t/hr to 0.31 t/hr to reflect improvements in the unit’s capabilities.

Ambient concentrations are corrected to standard conditions of 25°C and 101.325 kPa (standard temperature and pressure) for comparison to other sites. A part per million by volume is a milligram per cubic meter (about one grain of salt dissolved in a tank a meter high, long and wide. A part per billion by volume is one thousandth of a grain of salt in the same tank volume.

12TH FLOOR EPCOR TOWER  
1200 – 10423 101 STREET NW  
EDMONTON, AB T5H 0E9



## GENESEE CONTACT INFORMATION

If you have questions or comments about our operations, community engagement or our land management practices, please feel free to contact us.

Generating Station Reception  
**780-848-8300**

Community Engagement  
**780-848-8474**  
**PublicConsultation@capitalpower.com**

Manager, Land Services  
George Greenhough **780-969-8618**

Genesee Guardhouse  
(24-hour Security)  
**780-969-8505**

Capital Power Website  
**www.capitalpower.com**



## Careers

For more information on starting a career with Capital Power and to view current job opportunities, visit our website at **www.capitalpower.com/careers**. Capital Power is an equal opportunity employer.

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