Fraser Surrey Docks LP
Waste Discharge Permit Application to Metro Vancouver

Overview

Fraser Surrey Docks (FSD) has submitted an application for a Waste Discharge Permit (under Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007) for the discharge of treated wastewater associated with the proposed Direct Transfer Coal Facility (permitted in August 2014).

Wastewater Treatment Process

Under the permit application, wastewater from the proposed Facility would be discharged directly to the Annacis Island Treatment Facility via Metro Vancouver's North Surrey Interceptor Sewer. As such, wastewater would be treated and meet or exceed Metro Vancouver's rigorous standards protecting water quality.

The water treatment methods employed by Fraser Surrey Docks are expected to be able to treat collected water on site to a quality meeting or exceeding inputs from road runoff and other storm water inputs. All treated water to be discharged to Metro Vancouver's system will be sampled and analyzed for a number of parameters, including: pH, TSS, BOD, Chloride, sulphate, oil and grease (total and hydrocarbon based), polycyclic aromatic hydrocarbons (PAH), benzene, ethylbenzene, toluene and xylenes (BETX) and total metals. FSD will submit reporting of laboratory and onsite water quality to Metro Vancouver, as required by the permit.

Permitting Details

Fraser Surrey Docks' application is for 9 thousand tonnes of treated wastewater. Overall, FSD's treated wastewater would be a small fraction of the 172 million tonnes of regional wastewater flowing through the Annacis Island facility every year, undergoing similar treatment.

A significant amount of the water used in the system will be recycled water; this includes areas for dust mitigation and equipment wash-down. The coal handling facility will be built as a stand-alone and isolated system in terms of water collection, storage, treatment and management and covers an area less than 1.0 acres. All water collected and handled within the coal facility will be maintained within this containment area and will be managed, recycled and treated prior to discharge.

FSD has worked with Metro Vancouver to minimize the discharge rate of wastewater to a maximum of 5 litres/second. This is the amount of treated water that may be discharged to the sanitary system during the wet months, and can only be discharged when site water has accumulated to full capacity due to seasonal precipitation. FSD is designing the system to accommodate large-scale weather events with a storage capacity of 550,000 litres. Also within the boundaries of the facility, there will be an additional 400,000 litres of storage capacity acting as a contingency in the event of an emergency.

To regulate flow volumes, Metro Vancouver will provide FSD with real-time permission to discharge into their system, based on the status and capacity of Metro Vancouver's system. During times of discharge into the system, flow rates will be monitored and logged 24/7 with data submitted in real-time.

Metro Vancouver Public Comment Period

Metro Vancouver is currently collecting comments from the public for the purpose of evaluating Fraser Surrey Docks' waste discharge permit application. FSD will be compiling questions and feedback and responding to in-scope comments at the end of the comment period. This compilation will be posted on FSD's website following completion. Metro Vancouver will be accepting comments until April 9, 2015.

About Fraser Surrey Docks

Fraser Surrey Docks is the largest employer on the Fraser River waterfront, with more than 300 full-time employees. It is the largest modern, multi-purpose marine terminal on the west coast of North America. Fraser Surrey Docks has been a major employer and contributor to local communities for over 60 years, handling over 3 billion dollars-worth of goods annually. FSD has directly contributed over 280 million dollars to B.C. communities over the last 5 years through salaries, wages, taxes and buying of local goods and services.