

July 29, 2021

Ms. Lavinia Zanini
Land Remediation Section
Ministry of Environment and Climate Change Strategy (ENV)
Lower Mainland Region
10470, 152nd Street
Surrey, BC, V3R 0Y3

Semi-annual Status Report for January through June 2021
BC Site Number 6726

Dear Ms. Zanini:

cc: City of Burnaby – Saleh Haidar
CP Rail – Peter Pagenkopf
Environment Canada – Chris Raymond
First Nations - Squamish Nation – Kathleen Edwards
First Nations – Tsleil-Waututh Nation – Amanda King and Michelle George
Fraser Health – Arnold Fok
INAC (Indigenous and Northern Affairs Canada) – Christopher McDonald
Port of Vancouver – Kate Schendel

This semi-annual status report is in response to the requirement set out by the Ministry of the Environment and Climate Change Strategy (ENV) to keep the Ministry updated on information regarding on-going inspections, investigations, and remediation of the area of concern. It covers activities in the months of January through June 2021.

For those who have been copied: *Please advise if you wish to be taken off the distribution list for this report.*

Parkland continues the Burnaby Refinery's longstanding commitment to ensuring that we protect our local environment, and we mitigate and contain potential impacts relating to the former seepage from Area 2 of the refinery, which was first identified in April 2010.

These semi-annual updates, including attachments, are provided on the new Burnaby Refinery website - <https://www.burnabyrefinery.ca/en/safety-environment-reliability/remediation-monitoring-programs>.

FORESHORE

The Foreshore Passive Treatment System (FPTS) construction was completed in October 2017 and has been in operation for over three years. As part of the FPTS, new flow-through treatment cells were installed in both the Eastern and Western Seep areas. The FPTS Construction report is posted on the new Burnaby Refinery website.

Due to the low concentrations and stability of contaminants of concern measured at the FPTS, groundwater and porewater sampling on the Foreshore was reduced to once per year starting in 2020. Parkland will continue quarterly observation and maintenance of the FPTS to ensure that it remains effective. Inspections of the FPTS were completed on March 3 and June 4, 2021. The annual monitoring and sampling event was completed March 3-4, 2021. The combined 2020 and 2021 Foreshore Monitoring report is now posted on the CAP website as part of this update. Annual monitoring reports for the work performed on the foreshore in the current and previous year are available on the new Burnaby Refinery website. Other reports are available on request.

RAILROAD

Extraction of groundwater from the CPR interception trench continued during this half of 2021 and is ongoing. The system is monitored on a regular basis.

REFINERY

In general, the Perimeter Extraction System (PES) continued to operate effectively as designed and is monitored regularly. Performance of the PES in the current and previous year is presented on the new Burnaby Refinery website with the 2020 report being posted as part of this update. These reports also include a summary of the refinery Perimeter Monitoring Program (PMP) of which the PES is a significant part. The 2019 PMP and PES report was revised to meet an ENV request to highlight exceedances of aquatic life (AW) standards; the revised report is also posted as part of this update. Reports on the PES for previous years (to 2010) are available on request.

I trust this provides you with our progress to date and demonstrates our on-going commitment to the proactive management of this situation. Please let either Nick Middleton (604-257-4021) or me know if you have any questions.

Thank you.

Chris Boys, P.Geo.
Environmental Specialist
Burnaby Refinery
Phone: 604-257-4012