

August 14, 2024

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

**Annual Status Report for July 2023 through June 2024**  
**BC Site Number 6726**

Dear Ms. Zanini:

cc: City of Burnaby – Saleh Haidar  
CP Rail – Jordan Wakefield  
Environment Canada – Chris Raymond  
Fraser Health – Arnold Fok  
Indigenous Services Canada – Christopher McDonald  
Port of Vancouver – Annie Phung and Melanie Wilson  
Squamish Nation – Annabel Arnott  
Tsleil-Waututh Nation – Brittany John

This annual status report is in response to the requirement set out by the Ministry of the Environment and Climate Change Strategy (ENV) to keep ENV and pertinent parties updated on information regarding Parkland's on-going inspections, investigations, and remediation of the area of concern. It covers activities in the months of July 2023 through June 2024.

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.

Parkland is also committed to community engagement, therefore these annual updates, including any attachments, are provided on the Burnaby Refinery Community Advisory Panel (CAP) website - <https://www.burnabyrefinery.ca/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 six 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 Burnaby Refinery website.

Due to the low concentrations and stability of contaminants of concern measured at the FPTS, porewater sampling on the Foreshore was reduced to every two years starting in 2023; after 2025 the sampling frequency will be reduced to every five years. Parkland will continue observation and maintenance inspections of the FPTS on a semi-annual basis to ensure that it remains effective. An updated FPTS Monitoring, and Maintenance Plan (FPTS MMP) approved by ENV is posted on the CAP website. Inspections of the FPTS during this reporting period were completed on July 5, 2023, September 29, 2023, and March 13-14, 2024. The 2023-24 Foreshore Inspection Memo is now posted on the CAP website as part of this update. The most recent annual monitoring reports for the work performed on the foreshore are available on the Burnaby Refinery website. Other reports are available on request.

### RAILROAD

Extraction of groundwater from the interception trench on the CPR right of way continued until April 18, 2023, after having been in operation since January 2011. Monitoring data of the CPR ROW interception trench, nearby groundwater monitoring wells and the upgradient Perimeter Extraction System (PES) demonstrated that the on-going operation of the interception trench was no longer required. Monitoring of wells on the CPR ROW continues on a semi-annual basis.

### REFINERY

In general, the Perimeter Extraction System (PES) continued to operate effectively as designed and is monitored regularly. The most recent reports on performance of the PES are presented on the Burnaby Refinery website. These reports also include a summary of the refinery Perimeter Monitoring Program (PMP) of which the PES is a significant part. The 2023 report for the PMP and PES is now posted on the CAP website 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 Vicki Bowman (Refinery Environmental Manager, 604-257-5052) or me know if you have any questions.

Thank you.

*Chris Boys, M.Sc., P.Geo.*  
Senior Environmental Specialist  
Burnaby Refinery  
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