



Kearl EPO Update #12 – May 3, 2023

Imperial is committed to complying with an environmental protection order that was issued by the Alberta Energy Regulator (AER) related to industrial wastewater at our Kearl oil sands operating site. We regret these incidents and are making every effort to learn from it and apply preventative measures.

Imperial will provide regular updates to communities and potentially affected stakeholders. Updates will be posted to Imperial's website weekly and notifications will be sent via e-mail.

There are two separate incidents included in the order issued on Feb. 6. We are working with the regulator on next steps for both.

Imperial activating seepage mitigation systems

Imperial today provided an update on work underway at its Kearl oil sands facility. Work continues to complete remediation efforts which includes expanding our seepage interception system with additional drainage structures, pumping wells and equipment, and increase water and wildlife monitoring in the area. We continue to provide information to communities, regulatory officials from the Alberta Energy Regulator and government departments.

Summary

- Pumping and collection systems operating as work progresses on addressing areas of shallow seepage. Work is expected to be fully complete by end of May.
- Regular inspections and sampling at seep areas ongoing. Water sampling results provided weekly to AER and communities.
- Progressing plans to further protect nearby waterbody from potential seepage.
- Continued to provide information to communities on ongoing cleanup, mitigation and remediation actions.
- Water testing has indicated drinking water is safe, which has been confirmed by the local regional municipality.
- There continues to be no indication of impacts to wildlife or fish.

Seepage mitigation and prevention

Imperial continued to advance work to address shallow seepage and collect water on site. Pumping systems are operating at all four seep locations and work is continuing to complete final seep mitigations as ground thaws. Collection systems are being activated and continuous monitoring is also in place to ensure mitigations are working as intended. As work is completed in some areas, work crews are being demobilized from the site. About 100 people continue to work on related activities at the site.

Total off-lease surface area impacted by seepage locations covers about one hectare. There continues to be no indication of impact to wildlife. Additional fencing continues to be installed as work is completed to prevent potential access by wildlife. Wildlife monitoring is ongoing, with regularly scheduled sweeps in the area. We are working in collaboration with communities to incorporate their feedback on our monitoring plans.

Cleanup on drainage pond overflow

Sampling has been conducted to confirm cleanup of impacted materials resulting from wastewater released from a drainage pond on January 31, 2023. Imperial continues to work with the Alberta Energy Regulator on cleanup certification.

Based on our monitoring, released fluids did not enter any waterways and water sampling shows there has been no impact to local drinking water sources. There is no indication of impact to wildlife.

The company has determined the overflow was caused by a combination of equipment problems and process failure. We are taking actions to prevent reoccurrence at all drainage ponds:

- Inspected and re-programmed all level measurement equipment around the ponds
- Enhancing processes for sediment management
- Increased inspection requirements during regular operator surveillance
- Conducted additional training for all operators working in this area

Water quality

Imperial continues to take actions to prevent potential impacts to downstream waterbodies. We continue to actively monitor Waterbody 3, which is primarily located on the Kearn lease. We will be working with the Alberta Energy Regulator to confirm recent test results showing detections of F2 hydrocarbons and naphthenic acids. Our ongoing third-party sampling analysis in Waterbody 3 continues to meet aquatic life guidelines for F2 hydrocarbons. No guidelines exist for naphthenic acids.

Recovery equipment near the waterbody, which includes a vacuum system to collect the shallow groundwater, has been installed and fully activated. This is in addition to pumping equipment that was already in place at the seep. We have enhanced our monitoring efforts in this area and regular sampling programs by third parties are underway. We continue to evaluate an additional precautionary step to install a barrier at the outflow of the waterbody.

Alberta Environment and Protected Areas has indicated there is no evidence that municipal drinking water sources located more than 200 kilometres downstream in Lake Athabasca have been affected. Imperial also continues to respond to community requests to provide drinking water in the Fort Chipewyan region.

Meeting with communities

Imperial continues to engage directly with Indigenous community leaders and other community members to answer questions, provide information and begin to rebuild trust. We recognize that we still have work to do in this area and are committed to improving our communications in the future.

We have shared our mitigation and monitoring plans with communities and have offered for them to complete their own independent reviews of our technical work. We are also seeking input from communities on our plans to improve our communications going forward. We've put forward proposals to communities for near-term engagement with potential schedules and are gathering feedback.

Additional information

We have shared a factsheet about Imperial's response at Kearn on our website: [Getting the facts - Imperial response at Kearn \(imperialoil.ca\)](#)

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