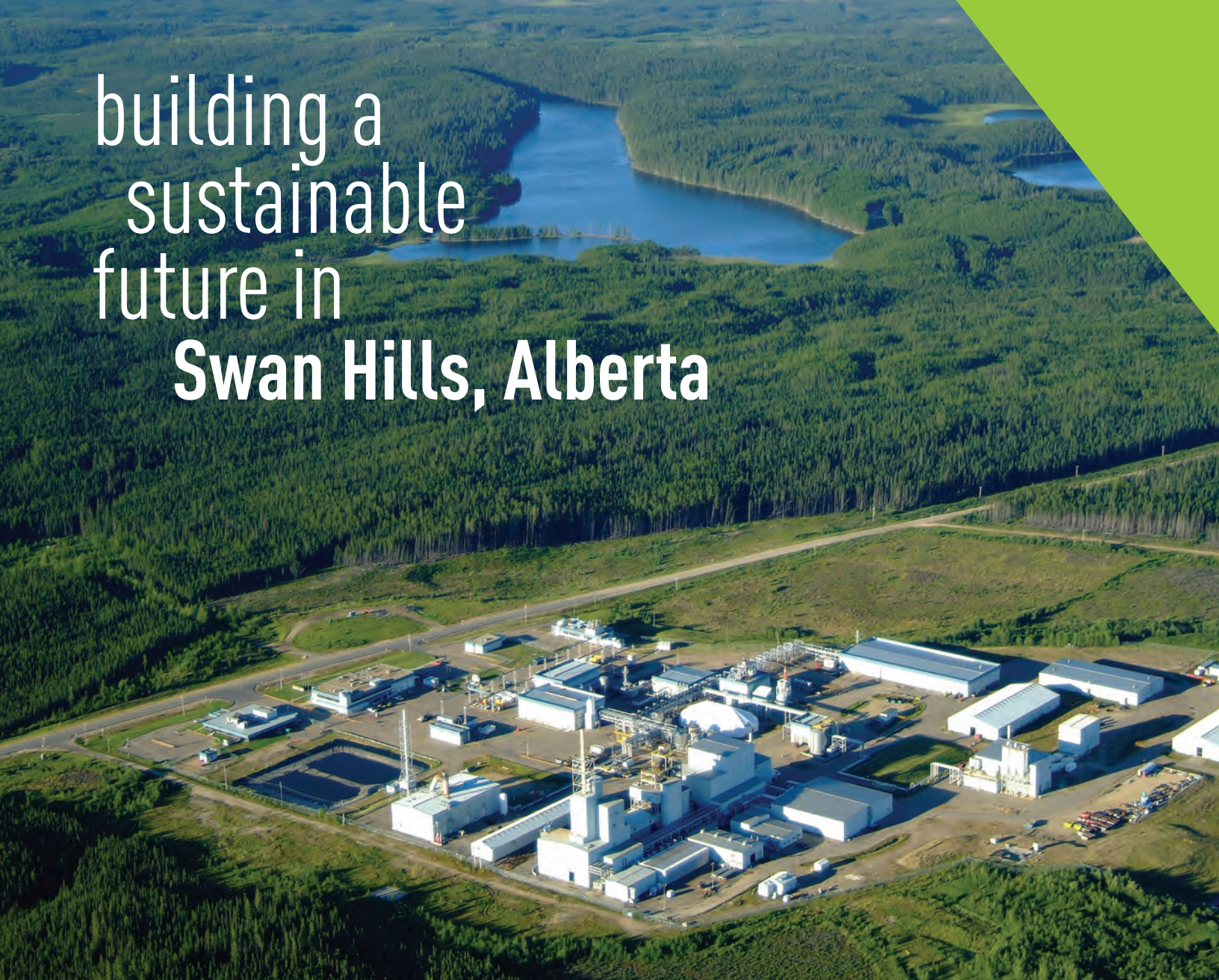


building a sustainable future in Swan Hills, Alberta



SWAN HILLS TREATMENT CENTRE

SUEZ provides operation and maintenance of Swan Hills Treatment Centre (SWTC). The fully integrated world-class waste treatment facility is the only one of its kind in Canada and one of a few in the world. Since its inception in 1987, it has played a principal role in treating many hazardous wastes – including PCBs, dioxins/furans and ozone depleting substances (ODS) – from across North America. Serving 4.3 million people, 4,500 trucks bearing 9,800 tons of material each week are handled by three facilities, all managed by SUEZ.

To date, the Swan Hills Treatment Centre has safely processed more than 290,000 tons of hazardous waste and over 2,000 different waste profiles. As a fully integrated world-class waste treatment facility it is capable of achieving complete treatment of all wastes with the exceptions of pathological, explosive and radioactive. A key feature of the treatment center's operation is that all wastes which are accepted by the facility are treated at one location with no need to ship residuals elsewhere.

taking the hazard out of hazardous waste

A complete specialized process line to treat and dispose of hazardous waste

Reception

Waste arrives by means of trailer trucks. Verifications, labeling and regulatory paperwork ensure tracking of the disposal process.

Incineration

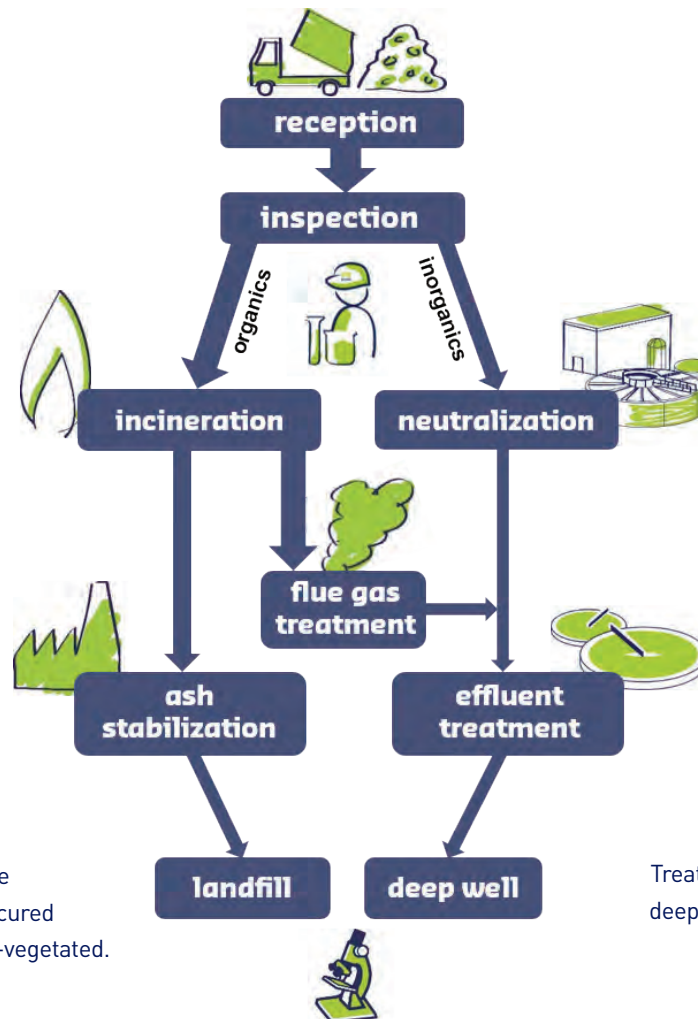
Organic wastes are destroyed in the incinerator at temperatures above 1050°C. This achieves Destructive Removal Efficiency of at least 99.9999% of hazardous organic compounds.

Stabilization

Fly ash is mixed with cement, which constitutes one of the many barriers against leachate of trace amounts of heavy metals.

Landfill

Stabilized material is disposed in the on-site Class 1 landfill. Cells are secured with clay, geomembrane and are re-vegetated.



Inspection & Pre-Treatment

The waste is inspected, analyzed in laboratory and/or pretreated (shredded, mixed, resized) before going through the main processes.

Neutralization

Inorganic liquids are chemically and physically rendered non-hazardous in the "Phys-Chem" process, utilizing a combination of acid/base and redox properties.

Post-Treatment

Flue gas scrubbing removes acids and particulates while effluents are cleaned using wastewater treatment techniques.

Deep Well

Treated liquid effluents are injected into a deep well 1,800 metres below the surface into a stable geological formation.

Environmental Monitoring

Any potential impact of the activities on the environment is closely monitored. Surrounding wildlife, air emissions, surface and ground waters, landfill and deep well integrities are constantly studied in order to verify that the prime goal of the facility is achieved: protect the environment.

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