Over several decades, the Spokane Reservation was contaminated by open-pit uranium mining and its inhabitants exposed to increased levels of radioactivity. As on other Native American lands, no proper studies were conducted to assess the health effects on the local population.

History
The Spokane Indian Reservation, about 640 km² in size, was created in 1881 for the local Native American population, who call themselves Spokane – the “Children of the Sun.” In 1954, two locals discovered uranium on the reservation. It was the time of the great “uranium fever,” and the U.S. Atomic Energy Commission was offering lucrative contracts in order to jump-start the uranium industry in the country. The U.S. nuclear weapons program was in desperate need of fissile material and people all over the country were looking for prospective uranium deposits. In 1955, the LeBret brothers opened the Midnite uranium mine with help from the Newmont Mining Corporation. The uranium business offered jobs and wealth, but brought with it a haunting legacy. After the Midnite Mine was closed in 1981, 33 million tons of radioactive waste had accumulated in the reservation. In 1973, a second mine was opened in Spokane. Shoshone produced about 2.8 million tons of tailings and more than 20,000 tons of radioactive waste until it was decommissioned in 1984.2,4,4

Health and environmental effects
Like other uranium mining projects on Native American land in the U.S. and Canada, the open-pit mines in Spokane had enormous effects on the lives and health of local residents. According to the Native American Sovereignty, Health, Air, Water and Land Society (SHAWL), mine sludge was transported in uncovered trucks through the reservation on the way to the mill and frequent spills resulted in a total of 40 hot spots along the highway. Contamination of groundwater and soil with radioactive isotopes such as radium-226, radon-222, lead-210 and uranium poses severe health threats to the Spokane people. Contaminated water continues to drain into Blue Creek and Spokane River and eventually feeds into Lake Roosevelt. Sediment, plant and water samples have all been shown to contain high levels of radioactivity.4 Like other indigenous populations, the Spokane people’s subsistence lifestyle and their cultural practices, such as hunting, fishing, gathering roots and berries, logging and the use of medicinal plants, predispose them to an increased exposure to radioactivity.4

Workers in the mine and mill handled uranium ore and yellowcake powder daily, mostly without proper protective gear. They brought home ore samples or dust on their clothing, so that their families also breathed in radioactive dust and were exposed through contamination of food and drink. Residents and mine workers complained about not being informed of the risks of radioactivity.2,4,4

According to SHAWL and local physicians, the rate of cancer, autoimmune diseases, renal failure and stillbirths in Spokane is higher than the national average. Despite all the evidence of exposure to radioactive and heavy metal toxins, no baseline health studies have ever been undertaken in Spokane and no dose estimates exist which could help in assessing health effects.5

Outlook
A clean-up plan, estimated to cost 198 million USD, was finally agreed upon in 2011 – 30 years after the Midnite Mine was closed. In the meantime, the local population has been continually exposed to radioactivity and no proper epidemiological studies have been conducted. The full impact of uranium mining on the environment and public health may never be known. The people of Spokane are asked Hibakusha, because their health was sacrificed for cheap uranium for power plants and nuclear warheads.

Further reading
SHAWL’s webiste shawlsociety.blogspot.de also offers a wide array of articles and background information about the situation in Spokane, such as the video “The Midnite Uranium Mine”: www.youtube.com/watch?v=59TR_NkEY0