

# PHASE IV ENVIRONMENTAL MANAGEMENT PLAN

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Canadian Pacific Railways

Moose Jaw, Saskatchewan



## Project Description

KGS Group designed and implemented the Phase IV Remedial Action Plan (RAP) at the Moose Jaw Yard in Moose Jaw, Saskatchewan in 1999. The purpose of the Phase IV RAP was to control and recover free phase liquid hydrocarbons, identified in a previous Phase III ESA conducted by KGS Group, through the use of a dual recovery system. The recovery system consists of interception trenches, large diameter collection wells, an oil/water separator building and an underground storage tank for recovered liquid hydrocarbons. There are also various mechanical components including belt skimmers, submersible groundwater depression pumps and associated piping. LPH is hydraulically controlled by the development of a drawdown cone using the series of large diameter wells located in the central yard area. KGS Group has provided both engineering and environmental services as well as overall project management throughout the installation and operation of the remedial system. Engineering services have included the design, construction, inspection and maintenance of the recovery system. Environmental services have consisted of groundwater monitoring and sampling, well maintenance, laboratory analyses, data assessment and reporting.