

NELSON

Case Study · Northern Ontario

A Canadian first: mobile PCB destruction, remote gold mine.

60,000 tonnes of impacted material handled at a remote northern Ontario gold mine, with PCB soil destroyed on site to 0.3 mg/kg instead of trucked into somebody else's liability.

REMOTE GOLD MINE · NORTHERN ONTARIO

60K t	24,000 t	0.3 mg/kg
Impacted material handled	PCB soil destroyed	Post-treatment result

THE WORK

Nelson mobilized the RS-45 to a remote mine site and ran mobile onsite thermal desorption under an Ontario Environmental Compliance Approval, volatilizing and destroying both PCBs and petroleum hydrocarbons.

PCB-impacted soil and hydrocarbon-impacted soil were segregated, treated to their respective criteria, and the treated ground regraded for natural revegetation.

PROJECT RECORD

CLIENT	Gold mine owner, through the site remediation contractor
SITE	Remote gold mine, northern Ontario
EQUIPMENT	RS-45 mobile direct-fire thermal desorption unit
SCHEDULE	A seven-month program, mobilization to closure
PERMITTING	Ontario Environmental Compliance Approval

NELSON ROLE	Thermal remediation contractor under the Ontario approval
CONTAMINANTS	PCBs at 5 to 10 ppm, plus petroleum hydrocarbons
VOLUME	60,000 tonnes handled: 24,000 t PCB and 36,000 t hydrocarbon soil
CRITERIA	Site-specific treatment criteria
RESULT	PCBs at 0.3 mg/kg. Soil returned and the site regraded for revegetation

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