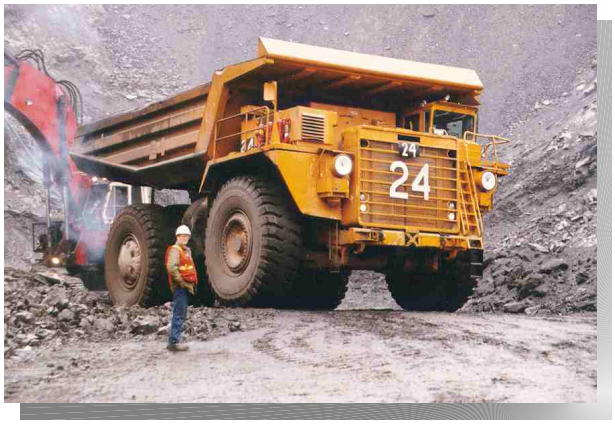

WIM M. VELDMAN *M.Sc., FEIC, P.Eng.*

Mining Experience

- EIA
- Design
- Diversions
- Water Supply Sediment Control
- Dams/Tailings
- Culverts/Bridges
- Dewatering/Drainage

CARDINAL RIVER COALS (1993 - Present)

Project manager for the surface water component of the EIA for the proposed new Cheviot Mine. The project involved hydrologic design input for the restoration of the CN Railway along the McLeod River, upgrading of an existing access road, water storage requirements for the new plant and the EIA and conceptual designs for the 20 km long mine which traverses 6 watersheds and will, in its life, require up to 30 stream diversions.

SYNCRUDE CANADA (1996)

Provided hydrologic advice re: proposed pilot surface dewatering system (effectiveness and construction methodology) for the proposed Aurora north mine. Utilized experience gained from an adjacent dewatering system constructed in the mid-eighties.

SUNCOR (1995-1996)

Served as the senior hydrologic advisor to Klohn Crippen re: the environmental impact assessment (surface water component) for the proposed Steepbank Mine on the east side of the Athabasca River.

ELKVIEW COAL (1995)

Detailed design, permitting and field inspections for the construction of channel restoration and armouring measures along the maintenance yard / stockpile areas (about 2 km long) and at the water intake required as a result of the massive June 1995 flood.

OSLO, ALBERTA (1984 - 1991)

Senior hydrologic advisor to Esso Resources Limited for the $4 billion OSLO oil sands project. This involved the development of conceptual plans for diversions and drainage systems, preparing Terms of Reference for consultants and reviewing the detailed design, criteria and specifications and advising on permitting and licensing strategies. Prepared the hydrologic component of the Environmental Impact Assessment. Participated in 6 public and environmental workshops. Acted as the facilitator for ESSO in their K - T decision making processes for analyzing surface water management, water supply, depressurization and tailings pond options.

CURRAGH RESOURCES, YUKON TERRITORIES (1979 - 1990)

Consultant for the hydrologic and hydraulic design of 3 km long diversion around two tailings ponds. The diversion, designed for the 1:500 year flood of 160 m^3/s, utilizes 70 rock drop structures to enable fish migration through a total drop of 30 meters. The design involves clay and thermal liners to reduce seepage and degradation respectively. Scope of work included planning, design, field engineering and post - construction monitoring. In 1988 and 1989, rock - lined spillways were designed to accommodate the raising of the tailing ponds.

PLACER MINING GUIDELINES, YUKON TERRITORIES (1989 - 1990)

Project manager for the development of stream restoration guidelines for placer mines in the Yukon. Manual used by miners in their permit applications to the Department of Fisheries and Oceans and was developed from field evaluations, aquatic considerations, public input and hydrologic, hydraulic and river engineering assessments.

BYRON CREEK, BRITISH COLUMBIA (1985 - 1986)

Project manager for the hydrologic and hydraulic input to the planning, detailed design and field engineering of a channel diversion and rock lined spillway for a 10 meter high water supply dam.

SURFACE WATER MANAGEMENT GUIDELINES, ALBERTA (1983)

Project manager for the preparation of guidelines to be used by applicants for the planning, design and licensing of water management schemes at open pit mines in the Province of Alberta.

ALSANDS ENERGY LTD., ALBERTA (1982 - 1986)

Project manager for the preparation of the Development and Reclamation Plan (surface water component) and for the detailed design and construction supervision of the sediment pond outfall channel to the Muskeg River.

SANDALTA OIL SANDS PROJECT, ALBERTA (1981)

Project manager for the preliminary design, cost estimate and environmental assessment of a number of options for a 10 km long diversion of Hartley Creek to the Athabasca River.

VARIOUS MINE PLANNING AND IMPACT STUDIES (1979 - 1986)

Project manager for the hydrologic and hydraulic work components for:

- flow monitoring for the ELCO mine in south - eastern B.C.,
- environmental impact assessment of Denison's Dentherm project in Alberta,
- flow monitoring and conceptual water management scheme for Esso's North Judy Creek project.

GREGG RIVER RESOURCES (1978 - 1979)

Project manager for the planning, detailed design specifications for diversion structures and channels around the plant facilities. Managed survey, geotechnical and structural subconsultants.

CARDINAL RIVER COALS LTD. (1978)

Project manager for the detailed hydrologic and hydraulic design and permitting of an inlet structure and 1000 meter long, 1.0 meter diameter culvert diversion around an operating open pit coal mine.