

Awards

Award of Excellence 2011

Municipal Engineering Category

Consulting Engineers
of British Columbia

District of Kent
Duncan-Bateson Pump Station

Award of Merit 2011

Municipal Engineering Category

Consulting Engineers
of British Columbia

Abbotsford Mission Water &
Sewer Services
Dickson Lake Upgrades

Award of Excellence 2009

Municipal Engineering Category

Association of Professional
Engineers & Geoscientists of
British Columbia

Award of Excellence 2009

Municipal Engineering Category

Consulting Engineers
of Canada

District of West Vancouver
Eagle Lake Membrane
Water Treatment Facility

Award of Excellence 2009

Municipal Engineering Category

Consulting Engineers
of British Columbia

Gold Award 2009

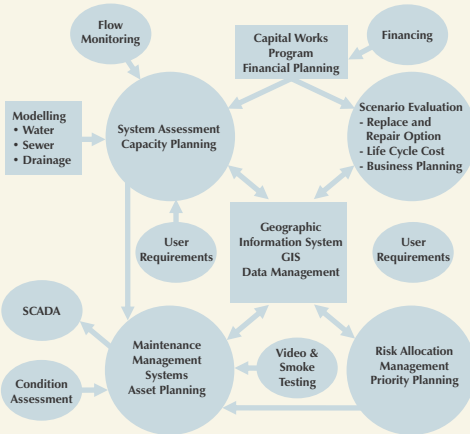
Water & Wastewater Category

American Council of Engineering
Companies of Washington

Honor Award Local Civil Engineering Achievement 2009

American Society of
Civil Engineers

King County, Washington State
Design/Build of the
Brightwater Marine Outfall



Full Cost Accounting (Asset Management)

Opus DaytonKnight was incorporated in British Columbia in 1965. The company is made up of professional engineers and technicians. Management rests with senior engineers who are active in the day-to-day activities of the organization. Fields of specialization include sewage collection, treatment, disposal, and reclaimed water reuse; water supply, treatment, and distribution; stormwater management; solid waste management; SCADA systems; trenchless technology; and asset management.

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*As of 15 Nov 2010 Dayton & Knight Ltd. became Opus DaytonKnight Consultants Ltd.

Asset Management



OPUS DAYTONKNIGHT



Asset Management

Since 1965 **Dayton & Knight Ltd.** has assisted in the development of traditional and innovative solutions to secure our clients' needs.

Fields of specialization include sewage collection, treatment disposal and reclaimed water reuse; water supply, treatment and distribution; stormwater management, solid waste management, research assignments, SCADA systems and trenchless technology.

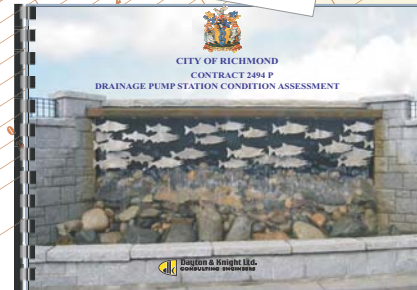
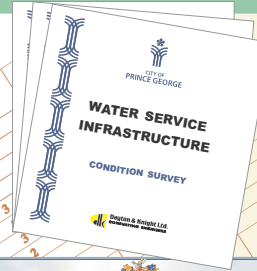
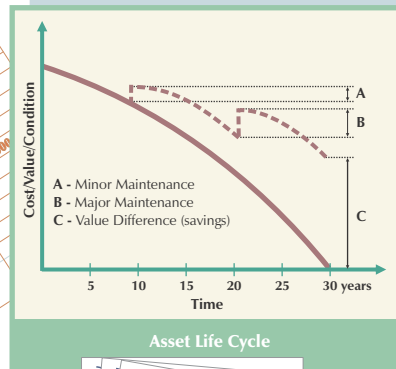
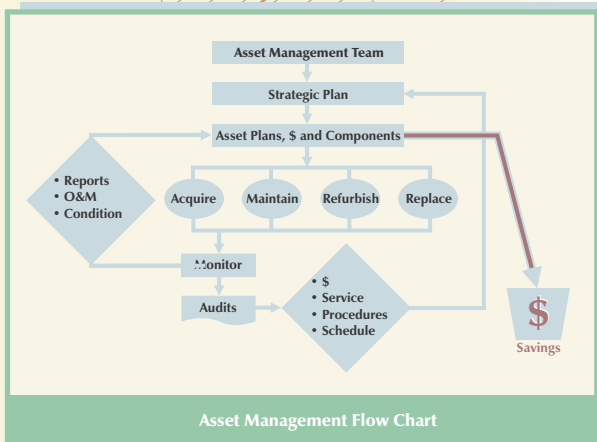
Planning work includes audits, development cost charge determination, liquid waste management plans and facility Master Plans.

Expertise is provided in sanitary engineering, hydraulics, hydrology, structural, electrical, mechanical, computer modelling, PLC and SCADA programming, construction management, project management, partnering, design-build, operation training, documentation for certification of facilities, environmental impact assessments and studies, energy audits, asset management, security systems advice, expert systems analyses, and post construction services.

Asset Management?

A plan consisting of four main sub-elements:

- Acquisition of the infrastructure.
- A maintenance plan to provide adequate security for each asset.
- A funding refurbishment plan to assure the sustainable management of these assets.
- A scheduling replacement plan of capital reinvestment needs of the infrastructure.



Asset Management

Why use Asset Management?

Develops more meaningful financial reporting

- The worth of all assets are related to the cost of operation. Depreciation reporting fails to address true cost.

Secures improved system operation

- A capital works program with a replacement program that reduces unidentified failures and emergency improves reliability.

Assures improved service and regulatory compliance

- Full asset accounting requires valuation of assets and time responsive replacement to reduce load on treatment works.

Provides lower operating and capital costs

- A capital works program that avoids unplanned spending and provides greater utility sustainability will ultimately improve management of the assets and reduce re-investments. Savings of 20% are possible.

How is Asset Management undertaken?

- O&M is measured financially with the asset.
- Costs of repair and replacement are collected for each asset as with capital.
- Condition assessments (measurements) provide a matrix of data that are used as a means to plan for upgrading of infrastructure.
- Once assets are recognized they can be controlled.

What Asset Management is:

"It is a different way of doing business"

- Each asset is measured and managed independently
- Each asset has a unique path



What Asset Management is not!

"It is not a computer system"

• It is not a SCADA, a maintenance management system or a geographic information system. These are tools that assist an Asset Management Team.