



## THE NETHERLANDS REMEDIATION MISSION

On May 24-30, 2008, Dr. Shafi Andseta represented XCG Consultants Ltd. (XCG), as a Canadian Delegate on a Soil and Groundwater Remediation Mission to The Netherlands. The focus of this mission was on soil, sediment, and groundwater remediation practices in the Netherlands and how Canada and the Netherlands can collaborate using both Dutch and Canadian expertise to move forward effectively.

It was a great honour to be asked to join the trade mission and be able to meet so many wonderful people in the environmental industry.

XCG is very experienced with soil and groundwater remediation projects and looked at this mission as an opportunity to showcase its services and expertise with environmental companies in the Netherlands.

The Mission was designed as an important step to facilitate collaboration leading to real solutions including possible pilot projects and ultimately facilitating clean ups in both countries. The program included presentations by Canadian delegates. As well there were site visits and meetings with Dutch companies that work in the environmental sector in fields encompassing policy development, R&D, technology and project work.



Canadian Delegates in the Port of Rotterdam



## Mission Organizer

The program in the Netherlands was organized by the Ministry of Economic Affairs and was prepared by TNO Built Environment and Geosciences, in co-operation with the Netherlands Soil Partnership, the Netherlands Ministry of the Environment, Housing and Spatial Planning and the Netherlands Centre for Soil Quality Management and Knowledge Transfer (SKB).

## Mission Leader

The mission was lead by Deltares/TNO ([www.deltares.nl](http://www.deltares.nl))

## Mission Coordinators and Supports

The mission Coordinators and Supports were the followings:

- Consulate-General of the Kingdom of the Netherlands
- Netherlands Consulate General in Vancouver,
- Embassy of the Kingdom of the Netherlands
- RES/EAU Environmental
- TNO/Detares (unit subsurface and groundwater, Geological survey of The Netherlands)
- Greenwood and Associates

## Canadian Delegates

XCG was accompanied by Canadian government and private sectors as follows:

- Environment Canada-Quebec
- Alberta Environment (Oil Sands Environmental Management Division)
- National Research Council Canada
- Centre d'excelence de Montreal en rehabilitation de sites
- Ontario Centre of Excellence, Centre for Earth and Environmental Technologies
- Ontario Ministry of Environment (Standards Development Branch)
- Ontario Ministry of Municipal Affairs and Housing
- City of Toronto Economic Development Corporation (TEDCO)
- B C Ministry of Environment, (Risk Assessment and Remediation Unit Land Remediation Section) and (Brownfields/Olympic Land Remediation Environmental Protection Division)
- Alberta Ministry of Transportation
- In Ventures Technologies Incorporated, Quebec Sustainable Development, Environment and Park Ministry,
- Frac Rite Environmental Ltd.
- Les Consultants en environmental Progestech Inc.



- Earthmaster Environmental Strategies Inc.
- Terrapex Environmental Ltd.
- EBA Engineering Consultants Ltd.Solution Eau Air Sol
- SNC-Lavalin Environment Inc.
- TechnoREm-Quebec
- Geophase Inc.-Quebec
- Aim Environmental Group Inc.
- Golder Associates Ltd.
- University of Waterloo
- Seneca College

## PROGRAM HIGHLIGHTS

### May 26

A welcome by Marten Van Den Berg, Deputy Director General of International Trade, Ministry of Economic Affairs

Presentations by:

- Dutch Ministry of Environment, Housing and Spatial Planning discussing policy framework
- Netherlands Soil Partnership (NSP)
- SenterNovem (bilateral funding mechanisms)
- Presentations by Canadian participants



XCG at the Regus Equinox Building in The Hague where the Canadian delegates were welcomed by Marten van den Berg, Deputy Director General of International Trade, Ministry of Economic Affairs



### May 27

Introduction to HIP (Holland In-situ Programme - HIP) with site visits, matchmaking and partnering

### May 28

Technology presentations and visits to full-size projects that demonstrate the regional approach to sites contaminated by the oil industry in the Port of Rotterdam, as well as matchmaking and a boat trip through the harbour.



Matchmaking Event at Deltares – TNO building, Utrecht

### May 29

Sediments and dredging, policy, practice, field visits to various regional projects (on site and mostly in-situ), and reception by Canadian Embassy at Canadian Ambassador's residence.

### May 30

Evaluation workshop, discussion of Master Plan, i.e. the next steps, follow-up planning for the framework of closer cooperation between the Netherlands and Canada.



## Locations and Site Visits by XCG

- World Forum Convention Centre in The Hague
- Ministry of Economic Affairs, Regus Equinox Building in The Hague
- Ministry of Environment, VROM Building in The Hague
- Deltares-TNO-Utrecht
- Maritime Simulation Rotterdam (MSR)
- World Port Centre, Havenbedrijf Rotterdam,
- Mineral Recycling Plant of BosKalis Dolman in Schiedam
- Mineral Recycling Plant of Biosoil Site, Tilburge
- HMVT Site, Antwerp
- Pelgrim in Antwerp, Belgium



Member of the Remediation Mission at the BioSoil Plant

## XCG's Trade Mission Intention

XCG's two fold intentions through this trade mission were:

- To provide knowledge, services and recommendations for remedial action to the contaminated sites that are of concern to the environmental companies in the Netherlands.
- To learn the new technologies used by environmental companies in the Netherlands, which we could apply to contaminated sites in Canada.



## Matchmaking

Matchmaking sessions between Canadian and Dutch companies was held in the Deltares TNO building May 28, 2008. XCG met, and interviewed with the following Dutch companies:

**Boskalis Dolman**, is an environmental company with the following main activities:

- Soil and sediment remediation (including Brownfield development)
- (Environmental) Dredging
- Treatment / processing of contaminated soil and dredged material by:
  - Soil and sediment washing
  - Mechanical dewatering of sludge's
  - Stabilisation and immobilisation
  - Landfarming
  - Vacuum consolidation
- Recycling of re-usable soil and building materials (incl. "Soil-bank")

For more information on Boskalis Dolman visit [www.boskalisdolman.nl](http://www.boskalisdolman.nl).

**Witteveen Bos**, is a consulting and engineering services company in the infrastructure, water, and construction environmental fields since 1946. For more information visit [www.witteveenbos.nl](http://www.witteveenbos.nl).

**A&G Milieutechniek bv** is an environmental company with activities in soil remediation, soil cleaning, groundwater purification, removal of asbestos in soil, waste disposal and the production of secondary construction materials since 1985. For more information visit [www.aengbedrijven.nl](http://www.aengbedrijven.nl).

**Tauw**, is an environmental company that has been in business since 1928. It has services that focus on:

- contaminated land management, including
- soil survey and soil remediation ,
- water management and engineering,
- including rural development,
- environmental management and
- engineering,
- including waste management,
- spatial planning and site development, including brownfield regeneration and strategic consultancy and studies, including process and project management since 1928 [www.tauw.com](http://www.tauw.com)



Dr. Andseta was pleased to represent XCG as a member selected to the Canadian delegation, and to have had the opportunity to establish relationships between the companies in the Netherlands and XCG by publicizing the services and expertise we offer.



XCG at VROM (Ministry of Environment) Building in The Hague