



Canadian General Standards Board Presentation To the CEAA

"ISO 14001 in the federal government Two case studies"

26 September 2002







Esquimalt Graving Dock, Victoria B.C.



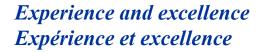




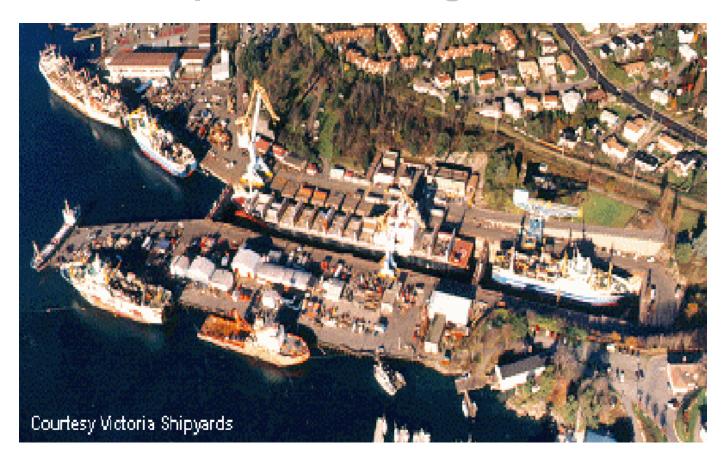


















Background

- Built in 1926
- Largest civilian graving dock on the West Coast
- Operated and maintained by PWGSC
- Open public facility
- Some leased space



December 3, 2001







The West Coast Domestic Fleet

30 Major BC Ferries, (Ave. 6,512 Grt, 119m Loa)



12 Major CCG/DFO Vessels (Ave. 1,172 Grt, 52m Loa)

15 Major DND MARPAC Warships (Ave. 4,510 Dwt, 102m Loa)

PWGSC Environmental Services December 3, 2001







1999 Alaska Cruise Ship Fleet

23 Vancouver Based Vessels (May-October)





Average size 54,700 Grt, 232m Loa

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Annual Deep Sea Vessel Traffic Near The EGD

10,196 vessels in 1998, including:



1169 General

2820 Container (28%)

Cargo (11%)

4748 Bulk Carriers (47%)

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Environmental Issues

- 100 years of ship building and repair
 - -DND, Yarrows, EGD
- Shipyard activities
 - Pressure washing, sandblasting, coating application, mechanical repair, welding, fueling and fluid changes, hazardous material storage and handling

All of these activities have the potential to negatively impact the air, water or land.

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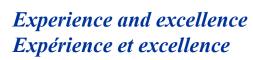
Environmental Impacts

- Sediment Contamination metals (Cu, Pb, Zn, As, Hg.), Organotins, PCB, PAHs
- □ Soil contamination metals, HCs, fill
- Air Emissions Sandblasting, VOCs, ODSs, Noise











Dimensions

Total length 361.48 metres

Width 41.15 metres

Cranes (5),

Electricity,

Communications (Telephone, Cable television),

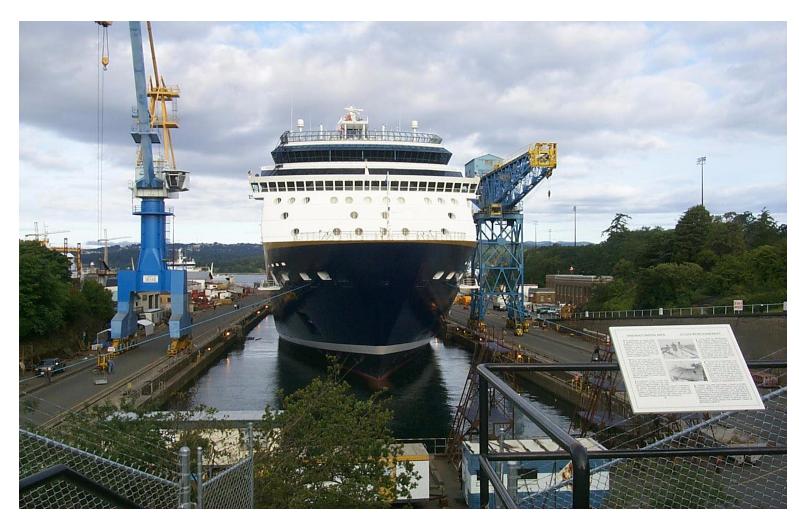
Compressed Air,

Water & Sewage

















Primary Users
VICTORIA SHIPYARDS CO. LTD.
POINT HOPE SHIPYARD CO. LTD.
NANAIMO SHIPYARDS LTD.
JENKINS MARINE LTD.





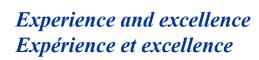




- Unique problems
- •Responsible for the facility
- Not involved in the construction
- •Exert significant influence.







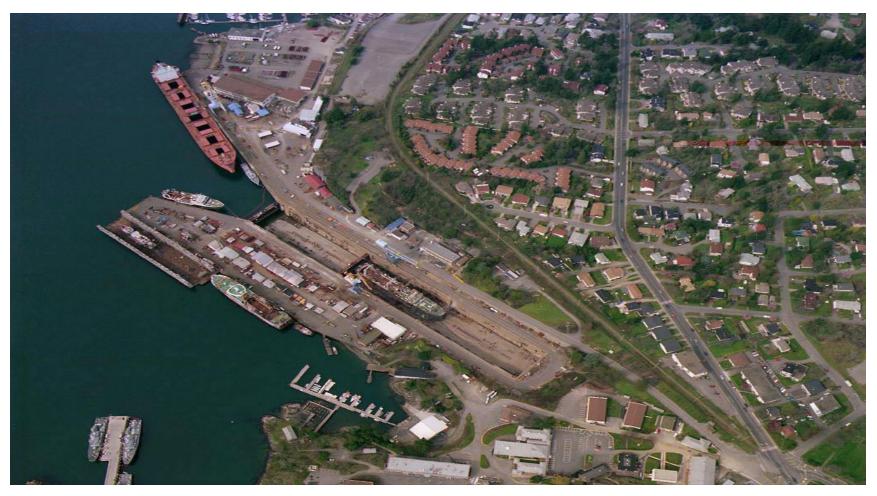


- •Recognized the environmental issues associated with industry activities
- •The PWGSC management and the main users agreed on an organized approach address.
- •The task of implementing an ISO 14001 EMS











Low Level Flight Training Area, Goose Bay, Labrador





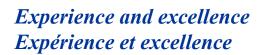












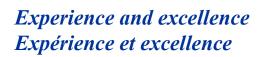


Project Description

- >MTA 130,000 km²
- > 6000 sorties yearly (4 allied air forces)
- > maximum 18,000 authorized
- > 30 week season (Apr-Oct)









Project Description - Cont

- > 70 camera target mock-ups
- > flight training 100-1000 ft AGL
- terrain masking (avoid radar detection)
- > no live weapons
- > 4nm radius PTA

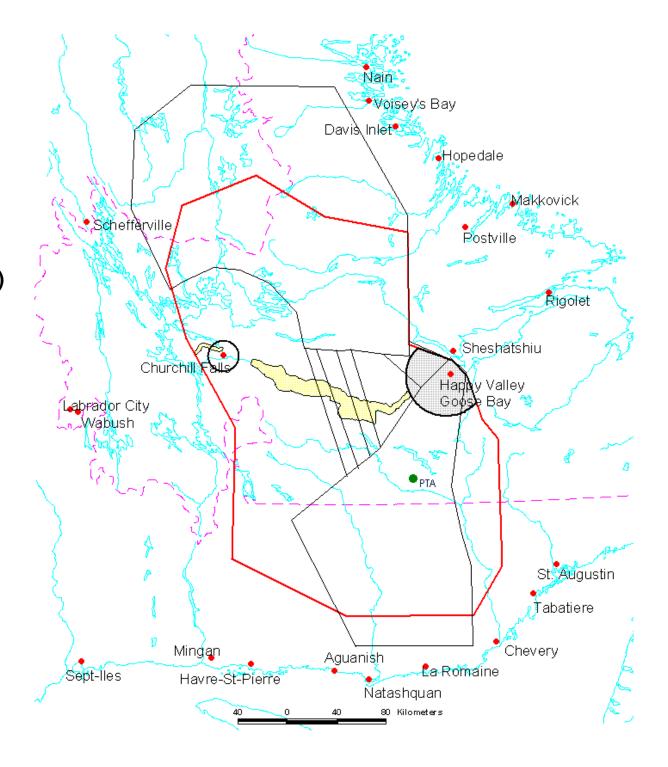




Military Training Area

130,000 km²

(1996 reconfiguration in red)





Public Environmental Review

"little evidence to suggest that the project will cause significant negative environmental social or health impact"

Panel issued 58 recommendations...

- support DND proposal to reconfigure training area to minimize overlap with most sensitive wildlife areas
- establish Institute to conduct independent effects research and build bridges
- support DND proposed levels of activity, related mitigation plans and residual impact predictions

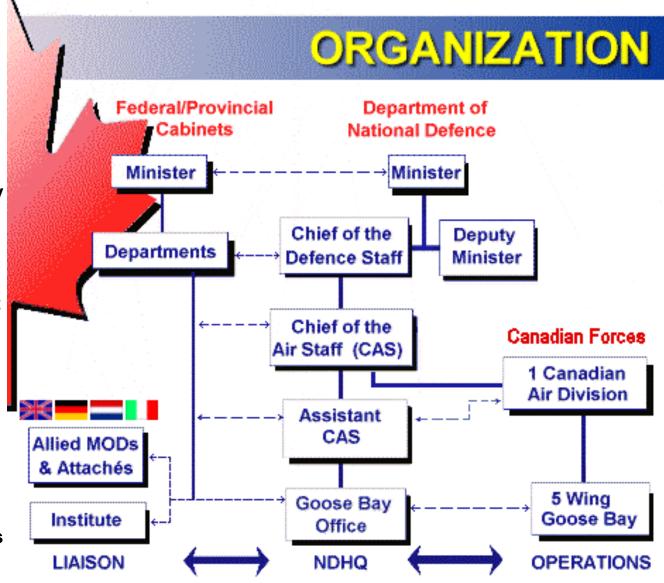
Responsibility Areas

Goose Bay Office Ottawa - NDHQ

- National OPI foreign military training activity
- International agreements
- Intergovernmental liaison
- aboriginal relations
- environmental management system (training activity)

5 Wing Goose Bay

- Provide services to allies
- command & control
- implement plans & orders
- infrastructure & operations



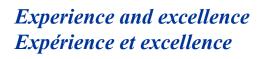


Environmental issues

- Noise disturbance to sensitive wildlife and human annoyance
- Visual stimuli
- Airborne contaminants
- Ground contamination at PTA









Mitigation Program

- funded by allied nations (\$ 1.5m annually)
- dedicated mitigation measures
- involves consultation and participation with resource
- managers / stakeholders and independent Institute
- established in 1990 to address potential impacts
- includes compliance monitoring of flight activity

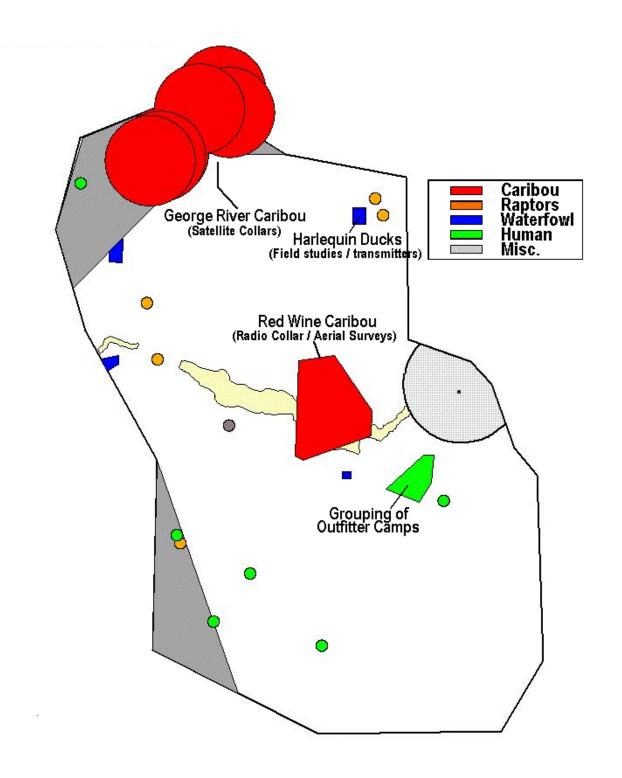




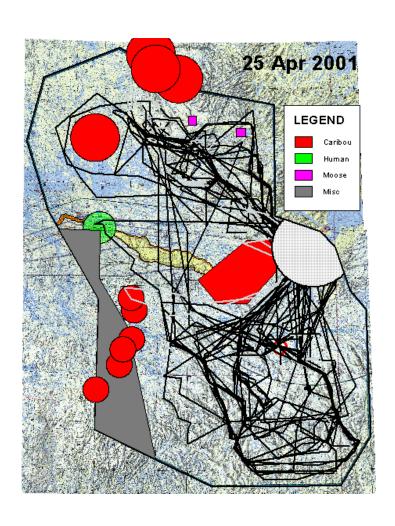
Primary Components of 2001 Mitigation Program	<u>\$ks</u>
George River Caribou (telemetry and census)	205
George River Caribou (telemetry validation)	150
Red Wine Caribou (telemetry census and noise monitoring)	120
Waterfowl (staging & behavioural)	115
Verification surveys	20
Raptors / Harlequin Ducks	190
Airborne contaminants and fuel dump monitoring	80
Community contact	20
Lac Joseph /other resident caribou	75
Noise investigation /modeling	160
Flight Track Compliance Monitoring	80
Moose Wintering	20
ISO 14000 preparation	50
Minor activities, consultation, contingency, & general admin	245 1,530

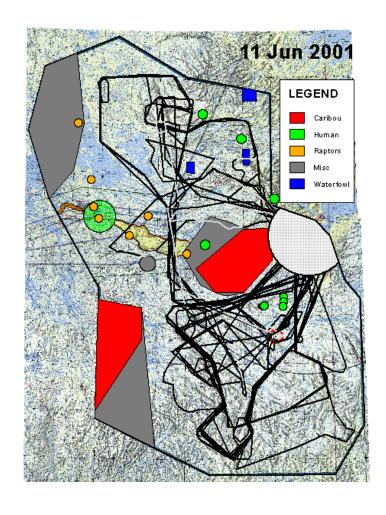
Examples of Avoidance Closures

based on ongoing DND monitoring programs



FlightTrack Compliance Monitoring





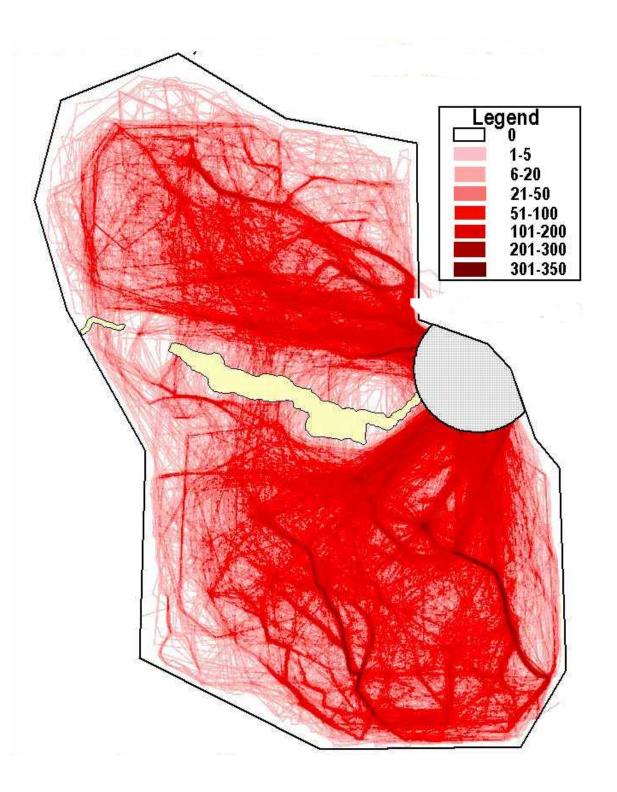
Low Level Flight Track Intensity Map

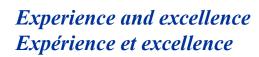
Compilation of all flight track data for entire season

Individual shades indicate total number of overflight events at every location

Approximately

- 4500 sorties flown over 150 days
- 95% of area < 1 event per day
- maximum 3- 4 events per day affecting < 2% of training area







ISO 14001 Certification

- Opted to "register" public profile of project
- •To ensure the Environmental Management System (EMS) continues to achieve objectives and remains focussed
- Registration audit expected summer 2003





Institute Mandate & Operation

- established by Government of Canada in 1996 (EARP)
- unique (& only) model in federal project EIA follow-up
- Mandate conduct independent research on effects of allied training in Goose Bay and "build bridges"
- funded by DND through annual \$1.12M grant
- Board of Directors composed of regional stakeholders and federal-provincial representatives
- Chair reporting directly to Ministers
- includes Scientific Review Committee
- no independent research results to date
- reviewed/confirmed DND effects research findings
 - "no adverse effects" (osprey & waterfowl)
- central to project's Sustainable Development approach



























QUESTIONS?



PWGSC Environmental Services
December 3, 2001



