
JAMES B. DEMPSEY

Marine Environmental Operations Specialist

Personal: Born June 24, 1951
Married with two children

Education: B.Sc. (marine biology/oceanography) University of Victoria, 1973.
Basic Survival Training (Marine Institute, St. John's, 1984/87/91/96/99)
WHMIS (NF Dept of Labour, 1996)
Emergency Response Media Training (Allan Bonner, 1996)
H₂S Training (St. John's, 1991)
Offshore Survival Training (Cottrell, 1983)
Marine Radio Operator's Restricted Licence (1995)
Industrial First Aid Certificate (BC Dept. of Labour, 1980)
St. John Ambulance Standard First Aid (1999)
Shoreline Clean Up and Assessment Techniques (SCAT) (Environment Canada, 1994)
Oil Spill Response (OSRL, 1995)
Site Assessment (NF Dept. of Labour, 1996)
Natural Resource Damage Assessment (NOAA & Florida State Department of Environmental Protection, 2001)
Exercising – How, When, & Why? (Corporate Response Group, 2001)
Executive Incident Commander (Petro-Canada, 2001)

Languages: English, some French and Spanish

Employment History:

August 1994 to Present	Cormorant Ltd., St. John's, NF
✂ Independent marine technology contractor	
April 1987 to July, 1994	Seaconsult Limited, St. John's, NF
✂ Operations Manager then Environmental Services Group Leader	
January, 1982 to March, 1987	Dobrocky Seatech Ltd., St. John's, NF
✂ Technical Manager then General Manager for Newfoundland Region	
January, 1979 to December, 1981	J&C Dempsey Limited, Victoria, BC
✂ Independent marine technology contractor	
October, 1974 to December, 1978	Dobrocky Seatech Ltd., Victoria, BC
✂ Oceanographic Technician	
April to September, 1974	BC Dept of Environment, Victoria, BC
✂ Field Biologist/Diving Supervisor, Marine Resources Branch	



Areas of Specialization

- ✂ Marine environmental monitoring programs.
- ✂ Overall management of environmental programs supporting marine-related industrial activity.
- ✂ Development and implementation of emergency response contingency plans and emergency response exercises.
- ✂ Coordination of marine search programs.
- ✂ Design, implementation, and management of physical oceanographic and ice field data collection programs.
- ✂ Offshore logistics and field program management.
- ✂ Marine pollution monitoring.
- ✂ Design and construction of specialized mooring systems for environmental monitoring and navigational aids.
- ✂ Marine oil spill prevention and cleanup.

Associations

- ✂ Canadian Meteorological and Oceanographic Society (CMOS)
- ✂ Newfoundland Ocean Industries Association (NOIA)
- ✂ Newfoundland Environmental Industries Association (NEIA)
- ✂ Director and Technical Committee Chair of St. John's Harbour ACAP Inc.
- ✂ Marine Technology Society (MTS)

Representative Project Experience

General Environmental

- ✂ Petro-Canada Client Representative to act as coordinator for field operations relating to the 1997 Terra Nova offshore environmental characterization program.
- ✂ Hibernia Client Representative to act as coordinator for field operations relating to the 1994 Hibernia offshore EEM program.
- ✂ Hibernia Client Representative to act as coordinator for field operations relating to the 1998 Hibernia offshore EEM program.
- ✂ Author of a field manual for the implementation of the Environmental Effects Monitoring (EEM) program at the Hibernia offshore production site.
- ✂ Field participant in the LASMO Nova Scotia offshore EEM program.
- ✂ On-site Project Coordinator for Voisey's Bay Nickel in implementation of the 1996 Environmental Assessment Program.



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- ✂ Coordinator for 1995 field operations relating to the Voisey Bay, Labrador, environmental program.
 - ✂ Contributor to the 1995 Petro-Canada Terra Nova production program Environmental Impact Study.
 - ✂ Environmental Coordinator for the 1991 BP and Mobil Grand Banks exploratory drilling programs, responsible for operational provision of weather forecasting, ice surveillance, oceanographic monitoring and oil spill preparedness services.
 - ✂ Project Manager for integrated physical environmental monitoring program in support of Canterra Energy's 1985 offshore drilling programs in Hudson Bay.
 - ✂ Senior field technician for a multi-disciplinary program between 1974-81 to monitor the environmental effects of mine tailings discharge at the Kitsault mine site in northern BC.
 - ✂ Marine supervisor for the 1994 DFO environmental monitoring program in the approaches to St. John's harbour.
 - ✂ Author of a 1993 review of all marine environmental data for Humber Arm, NF.
 - ✂ Contributor to the 1996 Chevron/Mobil Newfoundland Oil Transshipment Terminal Environmental Impact Study.
 - ✂ Assembly of an air-monitoring network in 1997 for baseline data collection at the proposed Voisey's Bay Nickel Company smelter at Argentiia, NF.
 - ✂ Author of over 200 technical reports.

Oil Spill/Emergency Response

- ✂ Oil Spill and Emergency Response Advisor to the Husky Oil presentation panel during the White Rose offshore production review hearings (2001)
- ✂ Planned the placement of onboard oil spill response spill kits on the Terra Nova FPSO (2001).
- ✂ Emergency Response Coordinator for the Terra Nova project.
- ✂ Emergency response exercise design and control for coastal and offshore operations.
- ✂ Developed oil spill response guidelines for Grand Banks crude oil shuttle tankers (2000 and 2001).
- ✂ Development of a vessel-based dispersant application system for use in responding to oil spills offshore.
- ✂ Member of spill management team for several marine spills in coastal and offshore, Newfoundland.
- ✂ Developed (1998-99) offshore oil spill response strategy for Terra Nova production and shuttle tanker operations.
- ✂ Developing (1998) oil spill response strategies for the IMTT/NTL transshipment terminal near Come By Chance, Newfoundland.



- ✂ Provided an evaluation of current (1998) offshore oil spill response capabilities available to the Terra Nova offshore production project.
- ✂ Advisor in 1998 to Husky Oil production operations and the Jeanne d'Arc Basin Operators in development of offshore oil spill response plans.
- ✂ Participated in the 1997 design and installation of a side sweep oil recovery system that can be rapidly deployed on Hibernia offshore standby vessels.
- ✂ Project manager for the 1993 ESRF development of a GIS-based computerized environmental sensitivity atlas for the west coast of Newfoundland.
- ✂ Shoreline assessment survey of the Port au Port Peninsula in support of drilling operation, December, 1995.
- ✂ Presenter at January 1996, On Scene Commander workshop.
- ✂ Presenter for marine oil spill and containment workshops, 1995 and 1996.
- ✂ Design of emergency response and oil spill exercise scenarios, 1987-98.
- ✂ Participant in offshore and coastal oil spill exercises in Newfoundland and Nova Scotia (1981-98).
- ✂ Trained Ultramar Newfoundland and Maritimes Oil Handling Facilities personnel in the preparation for the first response to oil spills at company facilities (1996-2001).
- ✂ Contributing author to Emergency Response and Oil Spill Contingency Plans for several Grand Banks drilling operations. Contributions have included: oil spill response equipment inventories, oil spill equipment deployment descriptions, personnel duties, communications systems, and collision avoidance procedures.
- ✂ Co-author of the 1991 "Directory of Canadian Marine Oil Spill Specialists".
- ✂ Field Manager for the oceanographic components of studies to determine the effectiveness of air deployed chemical dispersants on mock oil spills off St. John's, NF (1981) and Halifax, NS (1983).
- ✂ Logistics coordinator for oil spill response activities since 1994, involved in the set-up of the Newfoundland Response Centre of the Eastern Canada Response Corporation.
- ✂ Shoreline Cleanup and Assessment Technology (SCAT) surveyor trained through Environment Canada in 1994.
- ✂ Planning and Logistics Supervisor for a 1995 land/water diesel spill cleanup in Stephenville, NF.
- ✂ Received basic training in all aspects of marine oil spill response in 1995 at Oil Spill Response Limited, part of the Oil Spill Services Centre in Southampton, UK
- ✂ Program Manager for the coastal geomorphology and shoreline sensitivity mapping of the Voisey's Bay area in 1996.
- ✂ Contributor to the Environment Canada National Sensitivity Mapping Program through the supply of data (1996) and the mapping of the NE coast of Newfoundland (1997).



Marine Search & Salvage

- ✂ Ongoing working relationship with the Canadian Coast Guard Marine Rescue Sub Centre (MRSC) in St. John's Newfoundland.
- ✂ Search Master for the successful recovery of 12,000 metres of lost seismic cable 200 nm NE of the Grand Banks (2000).
- ✂ Development of procedures in 1997-98 for the recovery of Hibernia 72-man lifeboats by an offshore supply vessel.
- ✂ Coordinator for a 1994 mid-Atlantic search for a drifting barge, which had broken its tow in winter storm conditions.
- ✂ Coordinator for a search and inspection program in 1994 for a fish boat sunk in 300 metres of water in Placentia Bay, NF.
- ✂ Participated in the search operations for a downed helicopter in Placentia Bay, Newfoundland (1985).
- ✂ Ocean towing of the stricken supply vessel FREEDOM SERVICE that had lost main engine power off Hopedale, Labrador in October 1982.
- ✂ Salvage of a sailing vessel that had been driven on shore on the west coast of Vancouver Island during the 1976 Swiftsure yacht race.
- ✂ Skipper or mate over a seven year period (1974-81) on four coastal survey vessels ranging in length from 7 to 40 metres. Several years direct offshore experience. Considerable small boat experience. Owner of a 10-metre motor-sailer.

Oceanographic

- ✂ Advisor to the ExxonMobil Bandol drilling program off St. Pierre (2001)
- ✂ Field coordinator for 2000 Husky Oil White Rose and Cape Race oceanographic programs.
- ✂ Advisor to Terra Nova Project in development of oceanographic programs (1998-2001).
- ✂ Project manager for the implementation of physical oceanographic monitoring programs at over 80 offshore well sites between 1981 and 1998.
- ✂ Project manager for the collection of all oceanographic data in Bull Arm between 1989 and 1991 relating to the construction of the Hibernia GBS.
- ✂ Advisor in the purchase and installation of oceanographic equipment to be used at the Hibernia offshore production platform (1995).
- ✂ Collection of tide and current data in 1993 for the description of circulation patterns in the approaches to the harbour at Saint John, New Brunswick.
- ✂ Responsible for the successful deployment and recovery of current meter and wave buoy moorings in water depth exceeding 1600 meters during Northcor's 1987 offshore drilling program.



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- ✂ Senior field technician for circulation and diffusion studies at marine outfalls (1976-90).
 - ✂ Senior technician for the surface current measurement component of the 1975 Beaufort Sea Project. Surface drifting radio transmitters were monitored using fixed wing aircraft and helicopters equipped with Radio Direction Finding gear.
 - ✂ Field technician during studies to describe the circulation of two British Columbia inlet systems (1977-78) and the Columbia River estuary (1980).
 - ✂ Field technician for the deployment of navigation buoys and satellite tracked drifters on the Grand Banks and offshore Labrador (1981-87).
 - ✂ Technician involved in the development and the installation of a real-time current meter system in Davis Strait and on the Labrador Coast (1979-82).
 - ✂ Designer and senior technician for the installation of a real-time remote Acoustic Doppler Current Profiler (ADCP) system off Cape St. George, NF (1996) and at the Amoco West Bonne Bay, NF site in 1997-98.
 - ✂ Data Collection Manager for the 1988 circulation survey of Placentia Bay, NF.
 - ✂ Field Supervisor for the 1984-85 seabed current velocity measurement programs along the Sable gas pipeline corridor.

Ice & Icebergs

- ✂ Advisor to Terra Nova Project in development of ice management program (1998-2001) and editor of the Terra Nova Ice Management Plan..
- ✂ Project Manager for the 1997 and 1998 Voisey's Bay ice monitoring programs. The programs include: monitoring the development of landfast and offshore pack ice using RADARSAT imagery; time series of ice thickness measurements along a proposed shipping corridor; and supporting weather and oceanographic observations.
- ✂ Project manager for two Grand Banks underwater 3-dimensional iceberg surveys for Mobil (1984) and Petro-Canada (1985).
- ✂ Author of the 1991 version of the Ice Management Plan used by Grand Banks offshore operators. The plan includes: general response procedures to the threat of icebergs or sea ice; procedures for response to specific scenarios; duties of key personnel; surveillance procedures; reporting standards; and details concerning iceberg deflection, iceberg and sea ice description conventions, and iceberg measurement techniques. Implemented plan as operator's environmental coordinator during the 1997 ice season.
- ✂ Winter deployment of ice tracking beacons on the Labrador coast (1987)
- ✂ Participation in the 1984-85 Dobrocky Seatech Limited Grand Banks Ice Data Management System (IDMS), a computerized ice tracking and reporting system developed for the use of six offshore oil and gas operators.



Radar Ground-truthing

- ✂ Marine Manager for an international airborne radar evaluation program held off Key West, Florida in 1990.
- ✂ Provision of sea surface ground-truthing data for marine and airborne radar programs conducted by McMaster University (1994), US Navy (1998), NORDCO (1989), C-CORE (1990), Sigma Engineering (1993), and Husky Oil (1986)

Marine Biology

- ✂ Senior field technician and field foreman for a 1974 study on the post-harvesting regeneration of giant kelp on the Queen Charlotte Islands.
- ✂ Diving technician on a variety of biological inventory, instrument deployment, and seabed survey projects (1973-81).
- ✂ Project Biologist for several intertidal and shallow subtidal biological assessments relating to coastal construction or park development and the marine discharge of municipal or industrial wastes (1973-81).

Conference/Workshop Planning and Implementation

- ✂ Facilities coordinator for the 1989 International Symposium on Offshore Fisheries Oceanography (ISOFO) held in St. John's, NF.
- ✂ Course contributor and planner (Canada) for the 1993 Indian Ocean Research Vessel Workshop held in Mahé, Seychelles.
- ✂ Regular workshop presenter in the fields of shoreline assessment and marine operations relating to coastal oil spills.

