

Elise G. DeCola Curriculum Vitae

Oilspill Technical Seminar. Vancouver, British Columbia, Canada.

Nuka Research and Planning Group, LLC. 2009. *Evaluation of Marine Oil Spill Threat to Massachusetts Coastal Communities*. Report to Massachusetts Department of Environmental Protection.

Folley, G., L. Pearson, C. Crosby, E. DeCola, and T. Robertson. 2006. *The Alaska Commercial Fisheries Water Quality Sampling Methods and Procedures Manual*. Proceedings of the 29th Arctic and Marine Oilspill Technical Seminar. Vancouver, British Columbia, Canada.

DeCola, E.G. and S. Fletcher. 2006. *An Assessment of the Contribution of Human Factors to Marine Vessel Accidents and Oil Spills*. Report to Prince William Sound Regional Citizens' Advisory Council.

DeCola, E.G., Robertson, T.L., Robertson, R.R., and J. Banta. 2004. *Approach to Downstream Planning for Nearshore Response and Sensitive Areas Protection Outside Prince William Sound, Alaska*. Proceedings of the 27th Arctic and Marine Oil Pollution Technical Seminar. Edmonton, Alberta, Canada.

DeCola, E.G. 2003. *Dispersant Use in Oil Spill Response: A Worldwide Legislative and Practical Update*. Aspen Law and Business, New York, NY. 314 pp. Coil DA, Miller AD. Enhancement of enveloped virus entry by phosphatidylserine. *J Virol*. 2005 Sep;79(17):11496-500.

Nuka Research and Planning Group, LLC. 2006. *Alaska Commercial Fisheries Water Quality Sampling Methods and Procedures Manual*. Anchorage, Alaska: Alaska Department of Environmental Conservation. http://www.dec.state.ak.us/spar/perp/wq/wq_manual.htm

Nuka Research and Planning Group, LLC. 2006. *Oil Spill Response Mechanical Recovery Systems for Ice-Infested Waters: Technology Assessment for the Alaska Beaufort Sea*. Report to Alaska Department of Environmental Conservation.

DeCola, E. G. 2000. *Oil Spill Contingency Planning in the Twenty-First Century*. Cutter Information Corp., Arlington, MA.

Nixon, D., E. Golden, and L. Kane. 1999. *The legacy of the North Cape spill: a new legal environment for the tug and barge industry*. *Ocean and Coastal Law* (4)2:209-270.

RECOGNITION AND OTHER ACTIVITIES

First Place Planning Poster, International Oil Spill Conference (2011)

Peer Reviewer, International Oil Spill Conference (2011, 2014)

Platform Session Presenter, International Oil Spill Conference (1999, 2003, 2008, 2014)

Platform Session Presenter, Arctic Marine Oilspill Pollution Technical Seminar (2000, 2006, 2008, 2009, 2011)

Presenter, Coastal Zone Conference (1997, 2001)

Presenter, Massachusetts Soils Conference (2010)

Member, Environmental Business Council of New England

Member, Society for Women Environmental Professionals

Appointed Member, Plymouth Tidal Beaches Advisory Council (2011-2014)

APPENDIX F. ACRONYMS AND ABBREVIATIONS

API	American Petroleum Institute
ASTM	American Society for Testing and Materials
bbbl	Barrel
BC	British Columbia
CALMET	California Meteorological Model
CB	Current Buster
CLB	Cold Lake Blend Diluted Bitumen
CP	Containment Point
cST	Centistokes
Dilbit	Diluted bitumen
DNV	Det Norske Veritas
EDRC	Effective Daily Recovery Capacity
ft	Feet
hr	Hour
IOSC	International Oil Spill Conference
Km	Kilometer
kph	Kilometers per hour
kts	Knots
LLC	Limited Liability Company
m	Meter
m³	Cubic meter
MM5	Penn State Fifth Generation Mesoscale Model
n/a	Not applicable
NAS	National Academy of Sciences (US)
NCAR	National Center for Atmospheric Research (US)
NDBC	National Data Buoy Center (US)

NEB	National Energy Board (CA)
NHC	Northwest Hydraulic Consultants
NOAA	National Oceanic and Atmospheric Administration (US)
OSCAR	Oil Spill Containment and Response
OSV	Offshore Supply Vessel
OSRO	Oil Spill Response Organizations
OSRV	Oil Spill Recovery Vessel
OW	Open Water
PW	Protected Water
RCA	Response Capacity Analysis
RGA	Response Gap Analysis
RGI	Response Gap Index
ROC	Response Options Calculator
ST	Strike Team
TF	Task Force
Trans Mountain Expansion	Trans Mountain Pipeline Expansion
TR	TERMPOL Report
UMBRA	Upper Mississippi River Basin Association
UMWM	University of Miami Wave Model
US	United States
USCG	United States Coast Guard
USDHS	United States Department of Homeland Security
USEPA	United States Environmental Protection Agency
WCMRC	Western Canada Marine Response Corporation
WRRL	Western Response Resource List

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2620 **APPENDIX G. CERTIFICATE OF EXPERTS' DUTY**

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2622 Nuka Research has been engaged on behalf of the Tsleil-Waututh Nation, the City of Vancouver, and
2623 Tsawout First Nation to provide evidence in relation to Trans Mountain Pipeline ULC's Trans Mountain
2624 Expansion Project application currently before the National Energy Board.

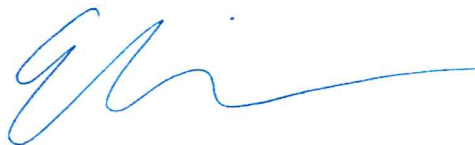
2625 In providing evidence in relation to the above-noted proceeding, Nuka Research acknowledges that it is our
2626 duty to provide evidence as follows:

- 2627 1. to provide evidence that is fair, objective, and non-partisan;
- 2628 2. to provide evidence that is related only to matters within our area of expertise; and
- 2629 3. to provide such additional assistance as the tribunal may reasonably require to determine a matter in
2630 issue.

2631 We acknowledge that our duty is to assist the tribunal, not act as an advocate for any particular party. This
2632 duty to the tribunal prevails over any obligation we may owe any other party, including the parties on whose
2633 behalf we are engaged.

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2636 Date: 25 November 2015 Signature: _____