Development of a National Directory of Canadian Marine Oil Spill Specialists
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Report No. 108

DEVELOPMENT OF A NATIONAL DIRECTORY OF
CANADIAN MARINE OIL SPILL SPECIALISTS

John R. Harper
Harper Environmental Services
10774 Derrick Road
Sidney, British Columbia
V8L 3R9

Scientific Authority: Mr. Rick Hoos
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The assistance of Mr. Jim Anderson of ESRF, Mr. Rick Hoos of Polar Gas and Mr. Jim Swiss of the Canadian Petroleum Association is gratefully acknowledged. dBase III Plus is a registered trademark of the Ashton-Tate Company.

Portions of this report were drawn from a previously published paper at the 1991 AMOP Technical Seminar (Harper et al, 1991b). The actual Directory, portions of which are included in the Appendices, was published in June 1991 (Harper et al, 1991a). The assistance of co-authors Jim Dempsey, Wayne Duval, Jim Haggarty, Blair Humphrey, Laurie Solsberg and Gordon Tidmarsh in the preparation of these reports is appreciated.
EXECUTIVE SUMMARY

This report provides an overview of the development of the "1991 DIRECTORY OF CANADIAN MARINE OILSPILL SPECIALISTS", developed during 1990 and 1991 through ESRF funding (see Harper et al, 1991a).

Although oil spill contingency plans may cover a wide range of oilspill scenarios, the complexity of regulatory, environmental and spill characteristics makes each spill unique. To assist the On-scene Coordinator and advisors with decision-making during spill events, resource specialists are often required on short notice to provide information that cannot be incorporated in advance into response plans. Resource specialists listed in this directory form a vital component of this information base.

Two critical evaluations were conducted during development of the directory:

(1) Screening Responses – inclusion in the directory was limited to individuals with previous spill experience or to individuals with a unique expertise in a critical resource area.

(2) Cross-referencing – a detailed keyword index was developed to assist in referencing individual expertise and a spill index to reference individual spill experience.

The directory includes approximately 289 individuals. Each record includes a name, contact information (address and phone no.), resource specialties, and spill experience. The directory is printed in hard-copy (Harper et al, 1991a) and is also available in a dBase III Plus file format.

Recommendations resulting from the development of the directory include: (1) the directory be updated bi-annually, (2) "regional" versions of the directory be developed to include additional local resource contacts, and (3) consideration be given to development of an international directory of response specialists.
RÉSUMÉ


Bien que les plans d’intervention en cas de déversement d’hydrocarbures proposent une grande variété de scénarios, la complexité de la réglementation, des incidences environnementales et des caractéristiques propres à chaque déversement fait que chaque cas est unique en soi. Les coordonnateurs et les conseillers des équipes d’intervention ont souvent besoin de trouver rapidement des spécialistes qui possèdent des renseignements qui ne pouvaient être prévus d’avance dans le plan d’intervention. Les noms des spécialistes figurant dans le présent répertoire sont un élément essentiel de cette base d’information.

Le travail de préparation du répertoire s’est articulé autour de deux opérations critiques :

1) Sélection des répondants : seuls ont été retenus les noms des personnes ayant déjà une expérience des déversements ou ayant une expérience unique dans un domaine de spécialité essentiel.

2) Création d’un système de renvois : les auteurs ont préparé un index détaillé des mots clés pour repérer facilement les compétences de chacun et un index des déversements pour repérer les interventions auxquelles les spécialistes répertoriés ont participé.

Le répertoire contient environ 289 noms et chaque entrée comprend le nom d’un spécialiste, ses coordonnées (adresse, numéro de téléphone), ses domaines de spécialité et les interventions auxquelles il a participé. Le répertoire est disponible sous forme de document papier (Harper et al, 1991a) et sous forme de disquette (dBase III Plus).

Recommandations formulées à la suite de la publication du répertoire : a) qu’une mise à jour soit publiée à tous les six mois; 2) que des versions adaptées aux diverses régions du pays soient préparées pour répertorier les ressources locales; 3) que soit envisagée la possibilité de préparer un répertoire international des spécialistes en interventions d’urgence.

1.1
INTRODUCTION

STATEMENT OF THE PROBLEM

Although oil spill contingency plans may cover a wide variety of oilspill scenarios, the complexity of environmental, regulatory and spill situations makes each spill unique. To assist the On-scene Coordinator and regulatory agencies in decision-making, resource specialists are often required at short notice to provide information that cannot be incorporated in advance into response atlases. As Harper (1987) noted in his review of decision-making during spill events, environmental advisors are a critical information source at the time of the spill, and generally the more information that is available early in the emergency, the more informed the decision-making. A listing of resource specialists would form a key component of this information base.

This project was designed to develop a national directory that would provide a listing of individuals that could assist in the event of a spill. No such directory existed prior to this project.

OBJECTIVES

The primary goal of the project was to list and catalog resource specialists that could be of assistance to response personnel during a spill, particularly during early stages. A secondary goal was to make the directory widely available for use by government and industry spill response agencies.

Specific objectives of the project were:

1. Compile a directory of spill resource specialists in an easy-to-use hard-copy format as well as a fully indexed electronic format.

2. Provide sufficient address details for each individual to permit easy contact.

3. Provide a keyword index summarizing an individual's primary areas of expertise related to spill response.
4. Provide a **spill experience index** that summarizes an individual's experience at specific spill events,

5. Provide a **geographic index** indicating regions where an individual has had first-hand field experience.

The Directory was **not** intended to (a) supersede contingency plan call-out lists, (b) list corporate experience or (c) list oilspill planning/response products.
METHODS

OVERVIEW

The development of the Directory involved two competing goals. First, it was desirable to incorporate as wide a range of expertise as possible in terms of response personnel. On the other hand, it was also considered important to identify individuals who had been involved with previous spill events; this previous experience would be particularly important during the early part of the spill when critical decisions are being made.

As a result of these competing goals, the decision was made to advertise in oilspill-related publications so as to concentrate efforts on individuals that would most likely have had previous spill experience. Notification of the Directory development was provided through various industry publications including the Oilspill Technology Newsletter, Oil Spill Intelligence Report and Arctic Petroleum Review. In as much as possible, industry cooperatives with marine spill experience also were contacted. In addition, a direct mailing to over 450 individuals was made early in the project; this included individuals listed in the British Columbia Oilspill Directory (Harper and Howes, 1990), government contact lists and personal contacts of project team members.

At this initial step, the decision also was made to limit the Directory to individual’s with field experience in Canada. It was recognized that many individuals without Canadian experience could meaningfully contribute to response decision-making; however, for the development of this first directory, this step was considered important in limiting the scope of the responses. This concern may be addressed by future regional or international directories.

DIRECTORY DEVELOPMENT

The development of the Directory involved five major steps:

Questionnaire and Keyword Listing Development — a questionnaire was developed to illicit relevant address and background information for individuals. A key element of this questionnaire was that it should be simple and rapidly completed (2-3 minutes). At the same time, a keyword
glossary was compiled to provide consistent terminology for summarizing individuals' experience.

**Notification and Questionnaire Circulation**
- direct mailing was initiated at the same time that the directory was announced in the industry publications.

**Screening** — as questionnaires were returned, each was screened against a set of "inclusion" criteria (see below). Questionnaires were categorized for: (a) inclusion, (b) further info required, (c) additional review, or (d) "exclusion".

**Review** — questionnaires indicating a potentially unique expertise or those slated for "exclusion" were reviewed by three project team members: the Project Manager, a discipline specialist and a regional specialist.

**Compilation** — a customized dBase III Plus database structure was developed for cataloguing the directory. This database was used for generating mailing labels, tracking questionnaires, providing consistency within the database, indices development, and final printing (see Appendix A).

No major problems were encountered during the development of the directory. It was originally anticipated that a stand-alone electronic database would be developed to facilitate updating and inquiries. Some work was undertaken in the dBase IV programming language, but the final completion was considered beyond the original scope of the project.

SCREENING

As previously indicated, the conflicting goals of (a) having as wide a range of specialists as possible and (b) limiting the directory to specialists with previous spill experience provided a challenge to the directory development. The former goal increased the number of listings, while the later goal limited the number of listings. As a result, a set of "inclusion" criteria was developed to provide a consistent approach to the screening process.
The inclusion criteria are summarized in Figure 1. The criteria are as follows:

**Criterion 1** - does the individual have Canadian field experience? If yes, apply Criterion 2. If not, exclude from the directory.

**Criterion 2** - does the individual have previous spill experience? If yes, apply Criterion 3. If not, refer to review process, Criteria 4.

**Criterion 3** - was the individual's experience in a decision-making, managerial or supervisory capacity? If yes, include within the directory. If not, exclude from the directory.

**Criterion 4** - does the individual have a unique area of expertise which has been of demonstrated use in previous spills or is likely to be of use in future spills? If yes, include within the directory. If no, exclude from the directory. This Criterion was evaluated by a review team composed of the project manager, a discipline specialist, and a regional specialist; in all cases the review was by consensus.

The guidelines provided a very effective screening criteria and worked smoothly during the review.
Figure 1. Procedures used in the response screening.
RESULTS

RESPONSES

At the time of final printing of the Directory, over 650 questionnaires were mailed and of these, 52% were returned (Table 1). Additional information was required on approximately 30% of the returned questionnaires (e.g., more information on previous spill experience).

<table>
<thead>
<tr>
<th>TABLE 1 SUMMARY OF MAILINGS AND RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Questionnaires Mailed: 666</td>
</tr>
<tr>
<td>Questionnaires Returned: 349</td>
</tr>
<tr>
<td>Individuals Included: 232</td>
</tr>
</tbody>
</table>

A total of 289 individuals were eventually included within the Directory, comprising over 80% of the respondents (Table 1). The majority of responses that were excluded from the Directory did not meet the Canadian field experience criteria. Sixty-one (21%) of the individuals listed had no previous spill experience but were judged to have had a unique expertise that justified inclusion.

DISCIPLINE REPRESENTATION

The composition of disciplines represented within the directory are indicated in Table 2. "Biological" and "Countermeasure" specialists comprise the majority of individuals listed. The "Other" category is made up of non-traditional disciplines such as communications, management, engineering and law specialists.

<table>
<thead>
<tr>
<th>TABLE 2 SUMMARY OF DISCIPLINES IN DIRECTORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological</td>
</tr>
<tr>
<td>102 (35%)</td>
</tr>
<tr>
<td>Countermeasures</td>
</tr>
<tr>
<td>84 (29%)</td>
</tr>
<tr>
<td>Cultural</td>
</tr>
<tr>
<td>17 (6%)</td>
</tr>
<tr>
<td>Other</td>
</tr>
<tr>
<td>30 (10%)</td>
</tr>
<tr>
<td>Physical/Chemical</td>
</tr>
<tr>
<td>56 (20%)</td>
</tr>
<tr>
<td>289</td>
</tr>
</tbody>
</table>
DEMOGRAPHICS

The geographic representation by region is indicated in Table 3 (note that the number of listings for each region do not sum to the total number of listings because many individuals are cross-referenced in several regions).

<table>
<thead>
<tr>
<th>Region</th>
<th>Number of Listings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pacific</td>
<td>130</td>
</tr>
<tr>
<td><strong>PACIFIC TOTAL:</strong></td>
<td><strong>130</strong></td>
</tr>
<tr>
<td>Beaufort Sea</td>
<td>70</td>
</tr>
<tr>
<td>Eastern Arctic</td>
<td>48</td>
</tr>
<tr>
<td><strong>ARCTIC TOTAL:</strong></td>
<td><strong>118</strong></td>
</tr>
<tr>
<td>Newfoundland and Labrador</td>
<td>31</td>
</tr>
<tr>
<td>Maritimes</td>
<td>62</td>
</tr>
<tr>
<td><strong>ATLANTIC TOTAL:</strong></td>
<td><strong>93</strong></td>
</tr>
<tr>
<td>Great Lakes and St. Lawrence River:</td>
<td>70</td>
</tr>
<tr>
<td><strong>GREAT LAKES TOTAL:</strong></td>
<td><strong>70</strong></td>
</tr>
</tbody>
</table>

DIRECTORY DISTRIBUTION

As of October 1991 a total of 56 printed directories had been distributed including sales of 48. Only five copies of the electronic version of the directory have been distributed (sales of 3 copies).
DISCUSSION

OVERVIEW

We initially expected a larger number of listings, based on the experience of the British Columbia Oilspill Directory, which included 117 individuals with either previous spill experience or unique expertise but did not include countermeasure specialists. The lower than expected response may reflect the limited audience of the industry publications in which the Directory was announced.

Should future versions of the Directory be compiled and printed, the number of listings should increase as each year allows the building on previous listings.

DISCIPLINE REPRESENTATION

In review of the discipline representation within the Directory, traditional spill specialists appear to be well represented. However, some of the disciplines that are peripheral to spill response (e.g., emergency communication specialists or spill litigation specialists) may not have been reached by the announcements or direct mailings.

The initial publication should raise public awareness as to the Directory and its potential use. As such, future Directories are likely to incorporate a wider range of disciplines. In addition, it is recommended that federal, provincial and municipal emergency service organizations be contacted during future compilations to assist in the identification of "non-traditional" response specialists.

REGIONAL REPRESENTATION

The summary of listings by region suggests (Table 3) a bias towards the Pacific region in terms of number of listings. The relatively higher proportion of the listings for the Pacific Region is probably a result of (a) the use of the BC Oilspill Directory as a source for the initial mailing and (b) the large number of individuals who have had direct experience with the Nestucca and EXXON Valdez spills (98 of the 232 individual listings had experience on one or both of these spills).
In that the compilation was funded by the Environmental Studies Research Fund (ESRF) in support of offshore exploration drilling concerns, the Directory focused on the frontier drilling regions of Canada, i.e. the Pacific Coast, the Arctic and the Atlantic coast. However, it was recognized that numerous individuals with response experience were located within the Great Lakes region, and these individuals were included within the directory.

The compilation of a National Directory should provide the framework for development regional directories or databases. There are numerous individuals that have extensive local knowledge about small geographic areas and that would be important resource personnel during a spill response. For example, native band leaders were included within the BC Oilspill Directory (Harper and Howes, 1991) as individuals who have a unique local knowledge of subsistence resource use and logistics. Local or regional directories should incorporate local expertise (e.g., fisherman co-ops, community response organizations, native band leaders, etc.) that is not appropriate for listing in a national directory.

INTERNATIONAL EXPERTISE

The directory was restricted to individuals with Canadian field experience which was regional in nature. The Directory is not comprehensive, however, in that there may be individuals without Canadian experience that could contribute significantly to a specific spill response.

There is a wide-range of international spill response expertise available and compilation of an international directory would be facilitate use of this expertise. International agencies (e.g., the UN) or industry organizations (e.g., ITOFF) are potential lead agencies for development of such a Directory.

DISTRIBUTION OF DIRECTORIES

At the annual Arctic and Marine Oilspill Project Meeting the Directories were highly visible, easily available and a paper was presented on the development (Harper et al, 1991b). Approximately 30 Directories were sold with over 80% of those sold to non-Canadians.
To date there have been less than 40 Directories distributed within Canada despite announcements in the Oilspill Technology Newsletter, the Oil Spill Intelligence Report and a direct mailing flyer to over 300 individuals.

In view of the apparent low interest level, annual updating does not appear warranted. However, bi-annual updating is recommended to accommodate the many address changes that are likely to have occurred since the initial compilation.
CONCLUSIONS

1. The Directory identifies over two hundred individuals with previous oilspill experience and Canadian field experience. This listing provides a valuable information resource for oil spill response.

2. Future directories of this type could provide a more comprehensive listing of specialists from "non-traditional" disciplines by soliciting advice through government emergency measure agencies.

3. The compilation and publication of such a Directory can not be supported by sales alone. It is doubtful if printing costs alone can be covered from direct sales.

4. The Directory provides the framework (format and initial specialist list) for the development of regional directories.
APPENDIX A

National Specialist Listing
1. ABBOTT, DONALD N.  wk 604/387-2441  5. AGES, ALARD B.  wk 604/363-6341
                      fax 604/387-5360  hm 604/382-5928                      fax 604/356-6323
                      hm 604/656-9245
Royal British Columbia Museum
675 Belleville Street
Victoria, BC  V8V 1X4

OCCUPATION: Archaeologist
DISCIPLINE: Cultural
SPECIALTIES: Archaeology: coastal, ethnohistory, excavations, resource mapping, Spills: monitoring: archaeology
SPILL EXPERIENCE: EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Provincial

2. ADELNOUR, RAZEK  wk 613/592-2830  6. ALLAN, GLENN M.  wk 709/576-5792
                      fax 613/592-4950                      fax 709/576-2071
                      hm 613/591-0532  hm 709/576-4282
Fleet Technology Limited
311 Legget Drive
Kanata, ON  K2K 1Z8

OCCUPATION: Engineer
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, burning, experimentation, skimmers, Spills: ice-oil interaction, modelling
SPILL EXPERIENCE: COOSRA
REGIONAL EXPERIENCE: Newfoundland & Labrador, Great Lakes & St. Lawrence River
EMPLOYER: Private

3. ACHESON, STEVEN R.  wk 604/356-1439  7. ALLEN, ALAN A.  wk 206/869-0988
                      fax 604/387-4420
                      hm 604/592-2389
Ministry of Municipal Affairs
Government of BC
800 Johnson Street
Victoria, BC  V8V 1X4

OCCUPATION: Archaeologist
DISCIPLINE: Cultural
SPECIALTIES: Archaeology: coastal, ethnohistory, excavations, resource mapping, Spills: monitoring: archaeology
SPILL EXPERIENCE: Greys Harbour Spill - Washington
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Provincial

4. ACKMAN, ROBERT  wk 902/420-7734  8. AMELL, RAYMOND A.  wk 613/925-2865
                      fax 902/420-0219
                      hm 902/469-5001
Canadian Institute of Fisheries Technology
Technical University of Nova Scotia
P.O. Box 1000
Halifax, NS  B3J 2X4

OCCUPATION: Food Scientist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Aquaculture: finfish, shellfish, Fish: demersal fish, processing, tainting, Water quality: pollutants
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Maritime
EMPLOYER: University

OCCUPATION: Environmental Specialist
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, burning, disposal, monitoring, operations, pumps
SPILL EXPERIENCE: Chronic Spills - Newfoundland & Labrador
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Provincial

OCCUPATION: Oil Spill Consultant
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, burning, experimentation, Oil: dispersants, Spills: ice-oil interaction, management/planning
SPILL EXPERIENCE: Santa Barbara Blowout, Exxon Blowout, EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Private

OCCUPATION: District Marine Emergency Officer
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, monitoring, operations, pumps, skimmers, vessels
SPILL EXPERIENCE: Chronic Spills - Great Lakes & St. Lawrence River
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
EMPLOYER: Federal

1 June 1991
9. ARNOLD, CHARLES

Prince of Wales Northern Heritage Centre
Dept. of Culture & Communications
Yellowknife, NT X1A 2L9

OCCUPATION: Archaeologist
DISCIPLINE: Cultural
SPECIALTIES: Archaeology: coastal, ethnohistory, excavations, resource mapping, water-logged sites
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic
EMPLOYER: Federal

RECORD NO.: 1240

10. AUSTIN, W.

Khoisan Marine Laboratory
4635 Alder Glen Place, RR 1
Cowichan Bay, BC V0R 1N0

OCCUPATION: Marine Biologist
DISCIPLINE: Biological
SPILL EXPERIENCE: VANLENE, IRISH STARDUST, Chronic Spills - Vancouver Harbour, EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private

RECORD NO.: 118

11. BADGER, DANIEL T.

Marine Emergencies Branch
Canadian Coast Guard
28 Waubeek Street
Parry Sound, ON P2A 2X4

OCCUPATION: District Marine Emergency Officer
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, monitoring, operations, pumps, skimmers, vessels
SPILL EXPERIENCE: Chronic Spills - Great Lakes & St. Lawrence
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
EMPLOYER: Federal

RECORD NO.: 1654

12. BAILEY, C.R.

Petroleum Industry Marine Environ. Coop
245 Fairview Mall Drive
Suite 407
Willowdale, ON M2J 4T1

OCCUPATION: Equipment Manager/Purchase
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: equipment general, specifications, shoreline cleanup, skimmers, Spills: environmental coordinator, impact assessment
SPILL EXPERIENCE: STOLT SYDNERs, CANADIAN ENTERPRISE, PETER MISNER
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
EMPLOYER: Private

RECORD NO.: 1558

13. BAILEY, ROBERT

Nova Scotia Offshore Petroleum Board
6th floor, Toronto Dominion Centre
1791 Barrington Street
Halifax, NS B3A 2P4

OCCUPATION: Environmental Management
DISCIPLINE: Other
SPECIALTIES: Remote Sensing: aircraft, Spills: environmental coordinator, fate and effects monitoring, impact assessment, management/planning
SPILL EXPERIENCE: Unikel 72 Blowout
REGIONAL EXPERIENCE: Maritimes
EMPLOYER: Other

RECORD NO.: 1096

14. BAIRD, ROBIN

Stranded Whale and Dolphin Program of BC
P.O. Box 6244
Victoria, BC V8P 5L5

OCCUPATION: Consulting Biologist
DISCIPLINE: Biological
SPECIALTIES: Birds: seabirds, Marine mammals: oil effects on, mammals: pinnipeds, whales, Toxicology
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Other

RECORD NO.: 128

15. BEAL, H. T.

Atmospheric Environment Service
Environment Canada
700-1200 73rd Avenue W
Vancouver, BC V6P 6H9

OCCUPATION: Meteorologist
DISCIPLINE: Other
SPECIALTIES: Meteorology: forecasting, modelling
SPILL EXPERIENCE: NESTUCCA, Chronic Spills - Vancouver Harbour
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal

RECORD NO.: 50

16. BEAUDIN, MICHEL P.

Environment Canada
1179 Bleury St.
Montreal, PQ H3B 3H9

OCCUPATION: Chemical Engineer
DISCIPLINE: Other
SPECIALTIES: Environmental: impact, Spills: environmental coordinator, assessment, management/planning, modelling, on-scene commander
SPILL EXPERIENCE: RIO ORINOCO, ENERCHEM FUSION
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
EMPLOYER: Federal

RECORD NO.: 1167

1 June 1991
17. BEAUDEIN, MICHEL P.  
Environmental Protection Service  
Environment Canada  
1179 Bieler Street  
Montreal, PQ H3B 3H9  
wk 514/283-6418  
fax 514/496-1137  
hm 514/722-2879  
OCCUPATION: Prevention Engineer  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: equipment general, Environmental: chemistry, impact, Spills: fate and effects monitoring, management/planning, on-scene commander  
SPILL EXPERIENCE: RIO ORINOCO, Chronic Spills - Great Lakes & St. Lawrence  
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River  
EMPLOYER: Federal  
RECORD NO.: 1661

18. BEECH, FRED G.  
Conservation and Protection  
Environment Canada  
224 West Esplanade  
North Vancouver, BC V7M 3H7  
wk 604/666-0370  
wk 604/666-6100  
fax 604/666-6281  
OCCUPATION: Environmental Emergency Coordinator  
DISCIPLINE: Countermeasures  
SPECIALTIES: Coastal: oilspill sensitivity mapping, Countermeasures: operations, Spills: environmental coordinator, management/planning, on-scene commander  
SPILL EXPERIENCE: ARCO ANCHORAGE, ARCTURUS, STAR LUZON, NESTUCCA  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 1108

19. BELFORD, SUSAN  
Jacques Whitford & Associates  
3 Spectacle Lake Drive  
Dartmouth, NS B3B 1W8  
wk 902/468-7777  
fax 902/468-9009  
hm 902/422-3973  
OCCUPATION: Aquatic biologist  
DISCIPLINE: Biological  
SPECIALTIES: Biological sensitivity mapping, Coastal: oilspill sensitivity mapping, Fish: anadromous, habitat, Spills: impact assessment  
SPILL EXPERIENCE: RIO ORINOCO  
REGIONAL EXPERIENCE: Maritimes  
EMPLOYER: Private  
RECORD NO.: 9

20. BELORE, RANDY  
S.L. Ross Environmental Research Limited  
200 - 717 Belfast Road  
Ottawa, ON K1G 0Z4  
wk 613/232-1564  
fax 613/232-6660  
hm 613/832-1097  
OCCUPATION: Professional Engineer  
DISCIPLINE: Countermeasures  
SPILL EXPERIENCE: COAA/TP Experimental Spills  
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes  
EMPLOYER: Private  
RECORD NO.: 1691

21. BEMISTER, EDGAR M.  
PIER (Petroleum Industry Emergency Response)  
Canadian Petroleum Products Institute  
703 - 45 Alderney Drive  
Dartmouth, NS B2N 2N6  
wk 902/465-7774  
fax 902/465-1202  
hm 902/435-5337  
OCCUPATION: Emergency Response Manager  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: operations, shoreline cleanup, skimmers, Spills: logistics, management/planning, on-scene commander, public relations  
SPILL EXPERIENCE: ARROW, CN Fort Aux Basque, BEDFORD CHITOWN, Chronic Spills - Maritimes  
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes  
EMPLOYER: Private  
RECORD NO.: 1682

22. BERNICK, KATHRYN  
139 West 18th Avenue  
Vancouver, BC V5Y 2A6  
wk 604/228-5630  
hm 604/873-5958  
OCCUPATION: Archaeologist  
DISCIPLINE: Cultural  
SPECIALTIES: Archaeology: coastal, excavations, water-logged sites  
SPILL EXPERIENCE: None  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Private  
RECORD NO.: 1241

23. BIRCHARD, EVAN C.  
ESSO Resources Canada Limited  
237 - 4TH Avenue S.W.  
Calgary, AB T2P 0H6  
wk 403/237-4902  
fax 403/237-2431  
hm 403/278-6687  
OCCUPATION: Environmental Advisor  
DISCIPLINE: Biological  
SPECIALTIES: Environmental: impact, Estuarine: ecology, Fish: habitat, Oil: dispersants, Spills: fate and effects monitoring, Toxicology  
SPILL EXPERIENCE: ARROW, IMPERIAL ST. LAWRENCE, Ixtoc Blowout, EXXON VALDEZ  
REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Great Lakes & St. Lawrence River  
EMPLOYER: Private  
RECORD NO.: 1355

24. BJERKELUND, INGRID  
D.F. Dickins Associates Ltd.  
Suite 503, 21 Water Street  
Vancouver, BC V6B 1A1  
wk 604/684-0516  
fax 604/684-2357  
OCCUPATION: Biologist  
DISCIPLINE: Countermeasures  
SPECIALTIES: Archaeology: resource mapping, Biological sensitivity mapping, Birds: oil effects on, Coastal: oilspill sensitivity mapping, Ice forecasting  
SPILL EXPERIENCE: Cape Breton Park Ice Experiments  
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic  
EMPLOYER: Private  
RECORD NO.: 565

1 June 1991
25. **BOBRA, ALICE M.**

Commerical Chemical Branch  
Environment Canada  
16th Floor - Place Vincent Massey  
Ottawa, ON K1A 0H3  

OCCUPATION: Aquatic Biologist/Hydrocarbon Chemist  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Bioassay testing, Hydrocarbon chemistry: analyses, chemistry: techniques, weathering, Invertebrates, Microbiology  
SPILL EXPERIENCE: BIOS  
REGIONAL EXPERIENCE: Eastern Arctic  
EMPLOYER: Federal  
RECORD NO.: 1113

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26. **BOBRA, MARK A.**

Consultchem  
P.O. Box 4472  
Station E  
Ottawa, ON K1S 5B4  

OCCUPATION: Environmental Engineer  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Hydrocarbon chemistry: analyses, sampling, Oil: dispersants, properties, Spills: monitoring, chemical, monitoring: physical  
SPILL EXPERIENCE: Beaufort Sea Dispersant Trials  
REGIONAL EXPERIENCE: Beaufort Sea, Maritimes  
EMPLOYER: Private  
RECORD NO.: 1011

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27. **BOEHM, PAUL.**

Arthur D. Little, Inc.  
Acorn Park  
Cambridge, MA 02140  
USA  

OCCUPATION: Marine Chemist  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Hydrocarbon chemistry: analyses, sampling, techniques, weathering, Spills: fate and effects monitoring, impact assessment  
SPILL EXPERIENCE: EXXON VALDEZ, AMOCO CADIZ, BIO  
REGIONAL EXPERIENCE: Pacific, Beaufort Sea  
EMPLOYER: Private  
RECORD NO.: 1552

---

28. **BORDEN, RHONDA.**

Department of National Defense  
CFB Goose Bay  
St. A  
Goose Bay, NF A0P 1S0  

OCCUPATION: Environmental Advisor  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: booms, monitoring, skimmers, Spills: public relations  
SPILL EXPERIENCE: ABITIBI PRICE, Chronic Spills - Goose Bay  
REGIONAL EXPERIENCE: Newfoundland & Labrador  
EMPLOYER: Federal  
RECORD NO.: 1046

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29. **BORSTAD, GARY A.**

G.A. Borstad Associates Ltd.  
#100 - 5855 West Saanich Road  
Sidney, BC V8L 3S1  

OCCUPATION: Oceanographer  
DISCIPLINE: Other  
SPILL EXPERIENCE: EXXON VALDEZ  
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes  
EMPLOYER: Private  
RECORD NO.: 1110

---

30. **BOURNE, NEIL F.**

Pacific Biological Station  
Dept. of Fisheries and Oceans  
Hammond Bay Road  
Nanaimo, BC V9R 5K6  

OCCUPATION: Research Scientist  
DISCIPLINE: Biological  
SPILL EXPERIENCE: None  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 29

---

31. **BOUTILLIER, JAMES.**

Pacific Biological Station  
Dept. of Fisheries and Oceans  
Hammond Bay Road  
Nanaimo, BC V9R 5K6  

OCCUPATION: Biologist  
DISCIPLINE: Biological  
SPECIALTIES: Biological sensitivity mapping, Fish: commercial: demersal fisheries, Invertebrates, Spills: communications, management/planning, monitoring: biological  
SPILL EXPERIENCE: NESTUCCA  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 183

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32. **BROWN, HUGH M.**

Eeco Resources Canada Limited  
3335 Research Road N.W.  
Calgary, AB T2L 2K8  

OCCUPATION: Surveillance Manager  
DISCIPLINE: Countermeasures  
SPILL EXPERIENCE: EXXON VALDEZ, Beaufort Sea Dispersant Trials  
REGIONAL EXPERIENCE: Pacific, Beaufort Sea  
EMPLOYER: Private  
RECORD NO.: 1361
NATIONAL LISTINGS

33. BROWN, RICHARD G.B.  
\[wk 902/426-2578\]  
\[fax 902/426-7827\]  
\[hm 902/457-2285\]  
Canadian Wildlife Service  
Environment Canada  
P.O. Box 1006  
Dartmouth, NS B2Y 4A2  
OCCUPATION: Wildlife Biologist  
DISCIPLINE: Biological  
SPECIALTIES: Biological sensitivity mapping, Birds: distributions, oil effects on, seabirds, waterfowl  
SPILL EXPERIENCE: ARROW, KURDISTAN, Chronic Spills - Maritimes  
REGIONAL EXPERIENCE: Eastern Arctic, Newfoundland & Labrador, Maritimes  
EMPLOYER: Federal  
RECORD NO.: 1095

34. BROWN, WALTER P.M.  
wk 416/278-8848  
Walter Brown & Associates  
533 Arbor Rd.  
Mississauga, ON L5G 2L6  
OCCUPATION: Environmental Engineer  
DISCIPLINE: Physical/Chemical  
SPILL EXPERIENCE: Chronic Spills - Toronto Harbour  
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River  
EMPLOYER: Private  
RECORD NO.: 1632

35. BUCKLEY, DALE  
\[wk 902/426-7732\]  
\[fax 902/426-4104\]  
\[hm 902/434-5734\]  
Atlantic Geoscience Centre  
Bedford Institute of Oceanography  
P.O. Box 1006  
Dartmouth, NS B2Y 4A2  
OCCUPATION: Marine Geocinet  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Coastal processes, Countermeasures: shoreline cleanup, Environmental: impact, Spills: fate and effects monitoring, monitoring: physical, oil-distribution mapping  
SPILL EXPERIENCE: ARROW, AMOCO CADIZ, KURDISTAN, EXXON VALDEZ  
REGIONAL EXPERIENCE: Pacific, Maritimes  
EMPLOYER: Federal  
RECORD NO.: 1513

36. BURST, IAN A.  
\[wk 613/232-1564\]  
\[fax 613/232-6660\]  
S.L. Ross Environmental Research Ltd.  
717 Belfast Road  
Suite 200  
Ottawa, ON K1G 0Z4  
OCCUPATION: Engineer  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: burning, experimentation, Spills: fate and effects monitoring, ice-oil interaction, logistics, modelling  
SPILL EXPERIENCE: Camp Farewell, McKinley Bay Experimental Spill, EXXON VALDEZ  
REGIONAL EXPERIENCE: Beaufort Sea, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River  
EMPLOYER: Private  
RECORD NO.: 1193

37. BURGER, ALAN  
\[wk 604/479-9833\]  
\[fax 604/721-7120\]  
\[hm 604/479-9833\]  
Dept. of Biology  
University of Victoria  
P.O. Box 1700  
Victoria, BC V8W 2Y2  
OCCUPATION: Seabird Biologist  
DISCIPLINE: Biological  
SPECIALTIES: Birds: distributions, Habitat, oil effects on, seabirds, shorebirds, waterfowl  
SPILL EXPERIENCE: NESTUCCA, Chronic Spills - Vancouver Harbour  
REGIONAL EXPERIENCE: Pacific, Newfoundland & Labrador  
EMPLOYER: Private  
RECORD NO.: 159

38. CAHILL, MOYA N.  
\[wk 709/754-9013\]  
\[fax 709/754-4790\]  
\[hm 709/754-7714\]  
MAC Consultants Inc.  
Cabot Place Suite 790  
100 New Gower Street  
St John's, NF A1C 6K3  
OCCUPATION: Marine Engineer  
DISCIPLINE: Countermeasures  
SPECIALTIES: Birds: Rehabilitation, Countermeasures: boom, skimmers, vessels, Spills: management/management, public relations  
SPILL EXPERIENCE: Placentia Bay  
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes  
EMPLOYER: Private  
RECORD NO.: 1683

39. CAINE, GARY  
\[wk 604/334-1403\]  
\[fax 604/334-1209\]  
\[hm 604/339-6729\]  
Ministry of Agriculture, Fisheries & Food  
Government of BC  
2500 Cliffe Avenue  
Courtenay, BC V9N 5M6  
OCCUPATION: Aquaculture Biologist  
DISCIPLINE: Biological  
SPILL EXPERIENCE: None  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Provincial  
RECORD NO.: 521

40. CAMPBELL, C.C.  
\[wk 604/666-7900\]  
\[fax 604/666-4440\]  
Dept. of Fisheries and Oceans  
2250 S. Boundary Road  
Burnaby, BC V5M 4L9  
OCCUPATION: Inspector  
DISCIPLINE: Other  
SPECIALTIES: Shellfish: crustaceans, molluscs  
SPILL EXPERIENCE: NESTUCCA  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 77

1 June 1991
41. CAMPBELL, R.W.
Royal British Columbia Museum
675 Belleville St.
Victoria, BC  V8V 1X4
wk 604/387-7483
fax 604/387-5360
hm 604/477-4221

OCCUPATION: Ornithologist
DISCIPLINE: Biological
SPECIALTIES: Birds: distributions, habitat, population studies, raptors, seabirds, waterfowl
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Provincial

RECORD NO.: 156

42. CARSWELL, BARRON
Ministry of Agriculture, Fisheries & Food
Aquaculture Operations
808 Douglas Street
Victoria, BC  V8W 2Z7
wk 604/356-2237
fax 604/356-7280
hm 604/383-1154

OCCUPATION: Marine Biologist
DISCIPLINE: Biological
SPILL EXPERIENCE: Sooke Mystery Spill
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Provincial

RECORD NO.: 510

43. CARTER, JOHN A.
International Centre for Ocean Development
5670 Spring Garden Road
Halifax, NS  B3J 1H6
wk 902/426-8212
fax 902/426-8974
hm 902/425-5116

OCCUPATION: Program Officer - Ocean Development
DISCIPLINE: Biological
SPECIALTIES: Archaeology: underwater sites, Benthos: ecology, Biological sensitivity mapping, Environmental: impact, Food quality, testing, Spills: fate and effects monitoring
SPILL EXPERIENCE: Umiak G72 Blowout
REGIONAL EXPERIENCE: Maritimes
EMPLOYER: Federal

RECORD NO.: 1677

44. CHALMERS, D.
Dept. of Fisheries and Oceans
South Coast Region
3225 Stephenson Point Road
Nanaimo, BC  V9T 1K3
wk 604/753-7350
fax 604/758-9600
hm 604/753-7350

OCCUPATION: Biologist
DISCIPLINE: Biological
SPECIALTIES: Fish: commercial: pelagic fisheries, habitat, management
SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal

RECORD NO.: 147

45. CHARDINE, JOHN
Canadian Wildlife Service
Environment Canada
P.O. Box 9158, Stn. B
St. John’s, NF  A1A 2X9
wk 709/772-2778
fax 709/772-6309

OCCUPATION: Seabird Biologist
DISCIPLINE: Biological
SPECIALTIES: Birds: oil effects on, population studies, rehabilitation, seabirds, Ecology: population dynamics
SPILL EXPERIENCE: Placentia Bay, Chronic Spills - Newfoundland & Labrador
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal

RECORD NO.: 1060

46. CHARETTE, MICH
Esso Petroleum Company
IOCO Refinery
2225 Ioco Rd, RR1
Port Moody, BC  V3H 3C8
wk 604/931-0200
fax 604/931-0298

OCCUPATION: Fate and Effects Advisor
DISCIPLINE: Other
SPECIALTIES: Bioremediation, Countermeasures: disposal, Hydrocarbon chemistry: analyses, Marine mammals: pinnipeds, Occupational health and safety, Spills: fate and effects monitoring
SPILL EXPERIENCE: EXON VALDEZ, Chronic Spills - Vancouver Harbour
REGIONAL EXPERIENCE: Pacific, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Private

RECORD NO.: 1176

47. CLARK, BRIAN J.
Ministry of Environment
Government of BC
10334 - 152 A Street
Surrey, BC  V3R 7P8
wk 604/584-8822
fax 604/660-8926
hm 604/667-1209

OCCUPATION: Biologist
DISCIPLINE: Biological
SPECIALTIES: Fish: anomalous, recreational fisheries, Spills: environmental coordinator, management/planning, on-scene commander
SPILL EXPERIENCE: Chronic Spills - Burrard Inlet
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Provincial

RECORD NO.: 1180

48. CLARKE, PETER L.
Renewable Resources, GNWT
Bag Service #1
Inuvik, NT  X0E 0T0
wk 403/979-7307
fax 403/979-2418
hm 403/979-2294

OCCUPATION: Biologist
DISCIPLINE: Biological
SPECIALTIES: Environmental: impact, Habitat: management, Subsistence resources, Terrestrial mammals: bears, mammals: otters
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Beaufort Sea
EMPLOYER: Territorial

RECORD NO.: 1600

1 June 1991
49. CLAYTON, LORNE W.
BEC Collaborative Marine Res. & Dev. Ltd.
146 Regina Avenue
Victoria, BC V8Z 1J3
wk 604/655-3117
fax 604/655-3113
hm 604/656-0418

OCCUPATION: Fisheries Biologist/Shellfish
DISCIPLINE: Biological
SPECIALTIES: Algae: Subtidal, Aquaculture: shellfish, Coastal: mapping, Environmental: chemistry, Shellfish: habitat, molluscs
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private
RECORD NO.: 504

50. COADY, WILLIAM G
Canadian Marconi Co.
17 Pippy Place
P.O. Box 8835, Sta A.
St. John's, NF A1B 3T2
wk 709/726-2422
fax 709/726-2428
hm 709/364-6340

OCCUPATION: Manager
DISCIPLINE: Other
SPECIALTIES: Spills: communications
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Private
RECORD NO.: 1025

51. COLODEY, ALAN G.
Marine & Environmental Quality
Environment Canada
224 West Esplanade
North Vancouver, BC V7M 3H7
wk 604/666-2883
fax 604/666-6858
hm 604/997-7223

OCCUPATION: Marine Biologist
DISCIPLINE: Biological
SPILL EXPERIENCE: Chronic Spills - BC South Inner Coast
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal
RECORD NO.: 557

52. COMFORT, GEORGE A.
Fleet Technology Limited
311 Legget Drive
Kanata, ON K2K 1Z8
wk 613/592-2830
fax 613/592-4950

OCCUPATION: Engineer
DISCIPLINE: Physical
SPECIALTIES: Countermeasures: equipment general, experimentation, ice ecology, Spills: ice-oil interaction, monitoring: physical, oil-distribution mapping
SPILL EXPERIENCE: Balena Bay Experimental Spill, Griper Bay
REGIONAL EXPERIENCE: Beaufort Sea
EMPLOYER: Private
RECORD NO.: 1009

53. CONNORS, RICHARD J
Northern Transportation Co. Ltd.
c/o Box 250
Hay River, NT X0E 0R0
wk 403/874-5150
fax 403/874-3722
hm 403/874-2931

OCCUPATION: Manager
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, equipment general, shoreline cleanup, vessels, Spills: on-scene commander, public relations
SPILL EXPERIENCE: Chronic Spills - Mackenzie River
REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic, Maritimes
EMPLOYER: Private
RECORD NO.: 1181

54. COOMBS, ROBERT G.
Nfld. Dept. of Environment & Lands
Elizabeth Towers
100 Elizabeth Avenue
St. John's, NF A1B 1R9
wk 709/576-2551
fax 709/576-2071
hm 709/754-4320

OCCUPATION: Environmental Specialist
DISCIPLINE: Biological
SPECIALTIES: Countermeasures: disposal, monitoring, operations, skimmers, vessels, Spills: environmental coordinator
SPILL EXPERIENCE: Shell Goose Bay, Chronic Spills - Newfoundland & Labrador
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Provincial
RECORD NO.: 1052

55. COON, MICHAEL
Ministry of Agriculture and Fisheries
Aquaculture Operations
808 Douglas Street
Victoria, BC V8W 2Z7
wk 604/356-2237
fax 604/356-7280

OCCUPATION: Resource Management
DISCIPLINE: Biological
SPECIALTIES: Algae: Intertidal, Subtidal, Aquaculture: finfish, shellfish, Plants: intertidal
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Provincial
RECORD NO.: 141

56. CRETNEY, WALTER J.
Institute of Ocean Sciences
Dept. of Fisheries and Oceans
P.O. Box 6000
Sidney, BC V8L 4B2
wk 604/363-6412
fax 604/363-6733
hm 604/656-6185

OCCUPATION: Hydrocarbon Chemist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Environmental: chemistry, Hydrocarbon chemistry: analyses, chemistry: sampling, Microbiology, Oil: dispersants, Spills: fate and effects monitoring
SPILL EXPERIENCE: BIOS, NESTUCCA, IRISH STARDUST
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Federal
RECORD NO.: 1684

1 June 1991
57. CROSBE, ALEX
    Crobie Industrial Services Limited
    Logy Bay Road
    P.O. Box 9341
    St. John’s, NF A1A 2Y3

    OCCUPATION: Contingency Specialist
    DISCIPLINE: Other
    SPECIALTIES: Countermeasures: pumps, shoreline cleanup, skimmers
    SPILL EXPERIENCE: LIBERTY BELL VENTURE, PETROSKALD
    REGIONAL EXPERIENCE: Newfoundland & Labrador

    EMPLOYER: Private
    RECORD NO.: 1043

    wk 709/722-8212
    fax 709/722-7540

58. CROSS, WILLIAM E.
    LGL Limited
    P.O. Box 280
    King City, ON L0G 1K0

    OCCUPATION: Marine Ecology
    DISCIPLINE: Biological
    SPECIALTIES: Benthos: ecology, invertebrates, Habitat: intertidal, Ice ecology,
    Spills: impact assessment, monitoring: biological
    SPILL EXPERIENCE: BIOS
    REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic, Newfoundland & Labrador

    EMPLOYER: Private
    RECORD NO.: 1562

    wk 416/833-1244
    fax 416/833-1255
    hm 416/863-2584

59. CVAR, MARK
    5027 Harvester road
    Unit 202
    Burlington, ON L7N 3G7

    OCCUPATION: Chemical Engineer
    DISCIPLINE: Countermeasures
    SPECIALTIES: Bioremediation, Countermeasures: booms, disposal, equipment general,
    shoreline cleanup, Hydrocarbon chemistry: sampling
    SPILL EXPERIENCE: MV UNISOL, Come By Chance Refinery, Chippawa
    Cleanup, Mountbello Fuel Spill
    REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River

    EMPLOYER: Private
    RECORD NO.: 1653

    wk 416/681-3366
    fax 416/681-1195
    hm 416/544-4383

60. DANIELS, ARTHUR
    SERVCO Environmental Limited
    P.O. Box 13501, Stn. A
    8 Heather Place
    St. John’s, NF A1B 4B8

    OCCUPATION: Environmental Consultant
    DISCIPLINE: Countermeasures
    SPECIALTIES: Countermeasures: equipment general, operations, Environmental: impact, Hydrocarbon chemistry: sampling, Spills: impact assessment, logistics
    SPILL EXPERIENCE: ROPANNA (SHELL)
    REGIONAL EXPERIENCE: Newfoundland & Labrador

    EMPLOYER: Private
    RECORD NO.: 1080

    wk 709/747-0114
    fax 709/747-2015
    hm 709/722-6835

61. DAVIDSON, L.W.
    Seacoast Limited
    200 Whitehills Road
    P.O. Box 2035, Stn. C
    St. John’s, NF A1C 5R6

    OCCUPATION: Contingency Specialist
    DISCIPLINE: Physical/Chemical
    SPECIALTIES: Countermeasures: equipment specifications, Oceanography:
    physical, Spill: communications, environmental coordinator, fate and effects
    monitoring, monitoring: physical
    SPILL EXPERIENCE: KURDISTAN, COOSRA
    REGIONAL EXPERIENCE: Newfoundland & Labrador

    EMPLOYER: Private
    RECORD NO.: 1084

    wk 709/722-7023
    fax 709/722-7353
    hm 709/364-3044

62. DAVIS, JOHN
    Dept. of Fisheries and Oceans
    Institute of Ocean Sciences
    P.O. Box 6000
    Sidney, BC V8L 4B2

    OCCUPATION: Scientific Administrator
    DISCIPLINE: Physical/Chemical
    SPECIALTIES: Spills: communications, fate and effects monitoring, impact
    assessment, management/planning, monitoring: biological, chemical
    SPILL EXPERIENCE: NESTUCOA
    REGIONAL EXPERIENCE: Pacific

    EMPLOYER: Federal
    RECORD NO.: 1326

    wk 604/363-1651
    fax 604/363-6479

63. DAVIS, ROLPH A.
    LGL Limited
    P. O. Box 280
    King City, ON L0G 1K0

    OCCUPATION: Ornithologist/ Marine Mammalogist
    DISCIPLINE: Biological
    SPECIALTIES: Birds: migratory, seabirds, waterfowl, Marine mammals: oil
    effects on, mammals: pinnipeds, whales
    SPILL EXPERIENCE: None
    REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic, Great Lakes & St.
    Lawrence River

    EMPLOYER: Private
    RECORD NO.: 1523

    wk 416/833-1244
    fax 416/833-1255
    hm 416/833-6472

64. DAVIS, STEPHEN
    Department of Anthropology
    Saint Mary’s University
    Halifax, NS B3H 3C3

    OCCUPATION: Archaeologist
    DISCIPLINE: Cultural
    SPECIALTIES: Archaeology: coastal, ethnography, excavations, resource
    mapping, underwater sites, waterlogged sites
    SPILL EXPERIENCE: None
    REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes

    EMPLOYER: University
    RECORD NO.: 1246

    wk 902/420-5631
    fax 902/420-5561
    hm 902/422-5942
## NATIONAL LISTINGS

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73. **DROWN, DENIS**
Marine Institute
P.O. Box 4920
St. John's, NF A1C 5R3

**OCCUPATION:** Captain  
**DISCIPLINE:** Countermeasures  
**SPECIALTIES:** Countermeasures: equipment general, shoreline cleanup, vessels, Ice forecasting, Occupational health and safety, Spills: management/planning  
**SPILL EXPERIENCE:** None  
**REGIONAL EXPERIENCE:** Eastern Arctic, Newfoundland & Labrador, Maritimes  
**EMPLOYER:** Provincial  
**RECORD NO.:** 1026

74. **DRYDEN, ROBERT**
Chevron Canada Resources  
500 - 5th Avenue  
Calgary, AB T2P 0L7

**OCCUPATION:** Engineer  
**DISCIPLINE:** Countermeasures  
**SPECIALTIES:** Countermeasures: shoreline cleanup, Spills: impact assessment, logistics, management/planning  
**SPILL EXPERIENCE:** None  
**REGIONAL EXPERIENCE:** Newfoundland & Labrador  
**EMPLOYER:** Private  
**RECORD NO.:** 1157

75. **DUKE, LARRY**
Dept. of Fisheries and Oceans  
423 - 1220 Government Street  
Victoria, BC V8W 1Y3

**OCCUPATION:** Fisheries Biology  
**DISCIPLINE:** Biological  
**SPECIALTIES:** Fish: anadromous, habitat, management  
**SPILL EXPERIENCE:** Chronic Spills - Vancouver Island  
**REGIONAL EXPERIENCE:** Pacific  
**EMPLOYER:** Federal  
**RECORD NO.:** 81

76. **DUNN, MICHAEL W.**
Canadian Wildlife Services  
Environment Canada  
P.O. Box 340  
Delta, BC V4K 3Y3

**OCCUPATION:** Environmental Assessment Office  
**DISCIPLINE:** Other  
**SPECIALTIES:** Biological sensitivity mapping, Coastal: mapping, oilspill sensitivity mapping, Spills: management/planning  
**SPILL EXPERIENCE:** NESTUCCA, Chronic Spills - Vancouver Harbour  
**REGIONAL EXPERIENCE:** Pacific  
**EMPLOYER:** Federal  
**RECORD NO.:** 1116

77. **DUVAL, WAYNE S.**
Seakem Group Ltd.  
407 - 1155 Robson Street  
Vancouver, BC V6E 1B5

**OCCUPATION:** Biologist  
**DISCIPLINE:** Biological  
**SPECIALTIES:** Benthos: invertebrates, Coastal: oilspill sensitivity mapping, Fish: oil effects on, Oil: toxicity, Spills: impact assessment, Toxicology  
**SPILL EXPERIENCE:** VANLINE, NESTUCCA, EXXON VALDEZ  
**REGIONAL EXPERIENCE:** Pacific, Beaufort Sea, Eastern Arctic  
**EMPLOYER:** Private  
**RECORD NO.:** 1117

78. **EASTON, ALEXANDER**
N.A. Easton & Associates  
Box 5196  
Whitehorse, YT T1A 4S3

**OCCUPATION:** Archaeologist  
**DISCIPLINE:** Cultural  
**SPECIALTIES:** Archaeology: coastal, excavations, underwater sites, water-logged sites  
**SPILL EXPERIENCE:** None  
**REGIONAL EXPERIENCE:** Beaufort Sea  
**EMPLOYER:** Private  
**RECORD NO.:** 1249

79. **EID, BASSEM M.**
MacLaren Piaskowski  
Suite 200, Park Lane Terraces  
5657 Spring Garden Road  
Halifax, NS B3J 3R4

**OCCUPATION:** Senior Oceanographer  
**DISCIPLINE:** Physical/Chemical  
**SPECIALTIES:** Meteorology: forecasting, modelling, Oceanography: physical, Spills: modelling, monitoring: physical, oil-distribution mapping  
**SPILL EXPERIENCE:** None  
**REGIONAL EXPERIENCE:** Newfoundland & Labrador  
**EMPLOYER:** Private  
**RECORD NO.:** 1544

80. **ELDRIDGE, MORLEY**
Millennia Research  
Suite 2, 9768 Second Street  
Sidney, BC V8L 3Y8

**OCCUPATION:** Archaeologist  
**DISCIPLINE:** Cultural  
**SPECIALTIES:** Archaeology: coastal, ethnohistory, excavations, resource mapping, water-logged sites, Spills: monitoring: archaeology  
**SPILL EXPERIENCE:** EXXON VALDEZ  
**REGIONAL EXPERIENCE:** Pacific  
**EMPLOYER:** Private  
**RECORD NO.:** 1118
81. ELLIS, GRAEME

Pacific Biological Station
Dept. of Fisheries and Oceans
Hammond Bay Road
Nanaimo, BC V9R 5K6

OCCUPATION: Marine Mammals Technician
DISCIPLINE: Biological
SPECIALTIES: Biological sensitivity mapping, Marine mammals: pinnipeds, mammals: sea otters, whales
SPILL EXPERIENCE: NESTUCCA, EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal

RECORD NO.: 522

85. FERGUSON, ROBERT

Archaeological Research Section
Parks Canada
Historic Properties
Halifax, NS B3J 1S9

OCCUPATION: Archaeologist
DISCIPLINE: Cultural
SPECIALTIES: Archaeology: coastal, ethnohistory, excavations, water-logged sites, Spills: monitoring; archaeology
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes
EMPLOYER: Federal

RECORD NO.: 1250

82. EMMERSON, KEITH R.

Marine Emergencies Branch
Canadian Coast Guard
P.O. Box 1013
Dartmouth, NS B2Y 4K2

OCCUPATION: Reg. Superintendent Emergency Operations
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, equipment design, pumps, shoreline cleanup, skimmers, Spills: on-scene commander
SPILL EXPERIENCE: EARL GREY, CAMARQUE, LUCIEN PAQUIN, SAN LORENZO, TRITON TRADER
REGIONAL EXPERIENCE: Beaufort Sea, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal

RECORD NO.: 1653

86. FINGAS, MERV

Conservation and Protection
Environment Canada
3439 River Road
Ottawa, ON K1A 0H3

OCCUPATION: Scientist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Environmental chemistry, Hydrocarbon chemistry: weathering, Oil: dispersants, Remote Sensing: instrumentation, Spills: ice-oil interaction, modelling, monitoring; chemical
SPILL EXPERIENCE: KOMARG, KURDISTAN, NESTUCCA, EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal

RECORD NO.: 1120

83. EMMETT, BRIAN

Archipelago Marine Research
11-1140 Fort Street
Victoria, BC V8V 3K8

OCCUPATION: Biologist
DISCIPLINE: Biological
SPECIALTIES: Aquaculture: shellfish, Fish: population studies, invertebrates, Spills: monitoring; biological
SPILL EXPERIENCE: EXXON VALDEZ, NESTUCCA
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador
EMPLOYER: Private

RECORD NO.: 113

87. FISSEL, DAVID B.

Arctic Sciences Limited
Suite 59, 201 Brownlow Avenue
Dartmouth, NS B3B 1W2

OCCUPATION: Oceanographer
DISCIPLINE: Physical/Chemical
SPECIALTIES: Oceanography: physical, Spills: impact assessment, modelling, monitoring; physical
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes
EMPLOYER: Private

RECORD NO.: 1565

84. ENGLAR, J.R.

Conservation and Protection
Environment Canada
4195 Marine Drive
West Vancouver, BC V7V 1N8

OCCUPATION: Organic Chemist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Hydrocarbon chemistry: analyses, sampling, techniques, weathering, Organic chemistry
SPILL EXPERIENCE: NESTUCCA, Chronic Spills - Yukon, Chronic Spills - BC South Interior Coast
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Federal

RECORD NO.: 1529

88. FORBES, DON

Atlantic Geoscientific Centre
Bedford Institute of Technology
P.O. Box 1096
Dartmouth, NS B2Y 4A2

OCCUPATION: Coastal Geomorphologist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Coastal: geomorphology, mapping, oilspill sensitivity mapping, processes
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes
EMPLOYER: Federal

RECORD NO.: 1121

1 June 1991
92. FUDGE, STEPHEN M.
Jacques Whitford & Associates Ltd.
3 Spectacle Lake Drive
Dartmouth, NS  B3B 1W8
wk 902/468-7777
fax 902/468-9009
hm 902/422-7612
OCCUPATION: Environmental Consultant
DISCIPLINE: Physical/Chemical
SPECIALTIES: Biological sensitivity mapping, Coastal: geomorphology, mapping, oilspill sensitivity mapping, Countermeasures: shoreline cleanup, Environmental: impact
SPILL EXPERIENCE: SOUTH ANGELA, RIO ORINOCO
REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes
EMPLOYER: Private
RECORD NO.: 1023

93. GILL, SHAWN D
Dept. of Energy Mines & Resources
355 River Road
Ottawa, ON K1A 0E4
wk 613/991-1916
fax 613/993-9897
hm 613/832-1661
OCCUPATION:
DISCIPLINE: Countermeasures
SPECIALTIES: Legal: compensation, liability, Oil: dispersants, Spills: management/planning, on-scene commander
SPILL EXPERIENCE: GOLDEN ROBIN, NEPCO 140, KURDISTAN, Ixtoc Blowout, Uniake G72 Blowout, COAATF Experimental Spill
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal
RECORD NO.: 1652

94. GILLAM, ANDREW H.
CBR International Corp.
P.O. Box 2010
101-9865 West Saanich Road
Sidney, BC V8L 3S3
wk 604/555-1944
fax 604/555-7131
hm 604/585-2538
OCCUPATION: Environmental Chemist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Environmental: chemistry, Hydrocarbon chemistry: weathering, Microbiology, Oil: properties, Spills: monitoring: chemical, Water quality: monitoring
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Private
RECORD NO.: 1371

95. GILLESPIE, RANDY
NORDICO Limited
P.O. Box 8833
St. John’s, NF A1B 3T2
wk 709/364-1200
fax 709/364-3550
hm 709/744-2952
OCCUPATION: Remote Sensing Specialist
DISCIPLINE: Other
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes
EMPLOYER: Private
RECORD NO.: 1039

96. GODON, ANN
D.F. Dickens Associates Ltd.
503 - 21 Water Street
Vancouver, BC V6B 1A1
wk 604/684-0516
fax 604/684-2317
OCCUPATION: Ocean Engineer
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: burning, experimentation, Ice forecasting
SPILL EXPERIENCE: West Coast Burning Experiments
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic
EMPLOYER: Private
RECORD NO.: 1189

1 June 1991
97. GORDON, DONALD C.  wk 902/426-3278
                fax 902/426-2256
                hm 902/469-2798
               Bedford Institute of Oceanography
               Dept. of Fisheries and Oceans
               P.O. Box 1006
               Dartmouth, NS B2Y 4A2

               OCCUPATION: Research Scientist
               DISCIPLINE: Biological
               SPECIALTIES: Benthos: ecology, Estuarine: ecology, habitat, Wetlands: ecology
               SPILL EXPERIENCE: ARROW
               REGIONAL EXPERIENCE: Maritimes
               EMPLOYER: Federal
               RECORD NO.: 1687

98. GOUDIE, IAN R.  wk 709/772-5585
                     fax 709/772-6309
                     hm 709/754-7771
                    Canadian Wildlife Service
                    Environment Canada
                    P. O. Box 9158, Station B
                    St. John’s, NF A1A 2X9

                    OCCUPATION: Wildlife Biologist
                    DISCIPLINE: Biological
                    SPECIALTIES: Birds: distributions, habitat, management, migratory, population studies, waterfowl
                    SPILL EXPERIENCE: Chronic Spills - Newfoundland
                    REGIONAL EXPERIENCE: Newfoundland & Labrador
                    EMPLOYER: Federal
                    RECORD NO.: 1059

99. GRAF, LINDA H.  wk 403/979-7311
                    wk 403/979-7289
                    hm 403/979-3835
                    GNWT, Dept. Renewable Resources
                    Lab Complex
                    Inuvik, NT X0E 0T0

                    OCCUPATION: Biologist
                    DISCIPLINE: Biological
                    SPECIALTIES: Raptors, seabirds, waterfowl, invertebrates
                    SPILL EXPERIENCE: None
                    REGIONAL EXPERIENCE: Beaufort Sea
                    EMPLOYER: Territorial
                    RECORD NO.: 1602

100. GRANT, ALEX  wk 604/847-7259
                fax 604/847-7591
                hm 604/847-9167
               Ministry of the Environment
               Government of BC
               Bag 5000
               Smithers, BC VOJ 2N0

               OCCUPATION: Spill Response Officer
               DISCIPLINE: Countermeasures
               SPECIALTIES: Countermeasures: burning, disposal, equipment general, Occupational health and safety
               SPILL EXPERIENCE: Chronic Spills - BC
               REGIONAL EXPERIENCE: Pacific
               EMPLOYER: Provincial
               RECORD NO.: 1190

101. GRATTON, LESLIE  wk 709/778-7278
               fax 709/773-2728
               hm 709/739-8176
                Hibernia Management & Development Co.
               Suite 1000
               100 New Gower Street
               St. John’s, NF A1C 6K3

               OCCUPATION: Marine Biologist
               DISCIPLINE: Biological
               SPILL EXPERIENCE: None
               REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes
               EMPLOYER: Private
               RECORD NO.: 1556

102. GREEN, GORDON D.  wk 604/387-6034
                 fax 604/387-5360
                 hm 604/478-5962
                Royal British Columbia Museum
                675 Belleville St.
                Victoria, BC V8W 1X4

                OCCUPATION: Invertebrate Zoologist (Taxonomy)
                DISCIPLINE: Biological
                SPECIALTIES: Benthos: invertebrates, Invertebrates, Shellfish: crustaceans
                SPILL EXPERIENCE: VANLINE
                REGIONAL EXPERIENCE: Pacific
                EMPLOYER: Provincial
                RECORD NO.: 153

103. GREEN, JOHN  wk 613/787-3867
        fax 613/787-3888
        hm 613/747-9056
       Prolec Logistcs
       501 Guy Street
       Ottawa, ON K1K 1C1

       OCCUPATION: Hazardous Materials Specialist
       DISCIPLINE: Other
       SPECIALTIES: Countermeasures: burning, equipment general, Spills: environmental coordinator, logistics, on-scene commander
       SPILL EXPERIENCE: Chronic Spills - Newfoundland & Labrador
       REGIONAL EXPERIENCE: Eastern Arctic, Newfoundland & Labrador
       EMPLOYER: Private
       RECORD NO.: 1191

104. GREEN, MARTYN  wk 604/985-0855
        fax 604/985-0955
       Burrard Clean Operations Ltd.
       467 Mountain Highway
       North Vancouver, BC V7J 2L3

       OCCUPATION: General Manager, Oil Spill Cleanup
       DISCIPLINE: Countermeasures
       SPECIALTIES: Countermeasures: booms, disposal, operations, shoreline cleanup, skimmers, vessels
       SPILL EXPERIENCE: Chronic Spills - Vancouver Harbour
       REGIONAL EXPERIENCE: Pacific
       EMPLOYER: Private
       RECORD NO.: 1323
105. GREENHAM, CAPT. M.S.  
Skip-Source Oil Pollution Fund  
900-270 Albert Street  
Ottawa, ON K1A 0N5  
wk 613/993-5439  
fax 613/990-5423  
hm 613/824-3810  
OCCUPATION: Director, Technical Services  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: disposal, operations, Legal: compensation, liability, Spills: on-scene commander, public relations  
SPILL EXPERIENCE: KURDISTAN, ARROW  
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River  
EMPLOYER: Federal  
RECORD NO.: 1629

106. HAEGELE, CARL W.  
Pacific Biological Station  
Dept. of Fisheries and Oceans  
Hammond Bay Road  
Nanaimo, BC V9R 5K6  
wk 604/756-7204  
fax 604/756-7053  
hm 604/758-1873  
OCCUPATION: Fisheries Biologist  
DISCIPLINE: Biological  
SPECIALTIES: Algae: Intertidal, Subtidal, Fish: ecology, habitat, pelagic fish, plankton  
SPILL EXPERIENCE: NESTUCCA  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 32

107. HAGGARTY, JAMES C.  
Shoreline Archaeological Services, Inc.  
1269 Montrose Avenue  
Victoria, BC V8T 2K3  
wk 604/386-9839  
hm 604/386-9839  
OCCUPATION: Archaeologist  
DISCIPLINE: Cultural  
SPILL EXPERIENCE: EXXON VALDEZ  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Private  
RECORD NO.: 1254

108. HALLEY, WAYNE  
Canadian Coast Guard  
Building 204, Pleasantville  
P.O. Box 1300  
St. John’s, NF A1C 6H8  
wk 709/772-2118  
fax 709/772-4066  
hm 709/733-2320  
OCCUPATION: Marine Emergency Officer  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: booms, burning, disposal, equipment design, general, experimentation, shoreline cleanup  
SPILL EXPERIENCE: KURDISTAN, BIOS, Chronic Spills - Newfoundland  
REGIONAL EXPERIENCE: Beaufort Sea, Newfoundland & Labrador, Great Lakes & St. Lawrence River  
EMPLOYER: Federal  
RECORD NO.: 1019

109. HARBO, RICK M.  
Dept. of Fisheries and Oceans  
South Coast Division  
3225 Stephenson Point Road  
Nanaimo, BC V9T 1K3  
wk 604/756-7268  
fax 604/758-9600  
hm 604/758-9492  
OCCUPATION: Fisheries Biologist  
DISCIPLINE: Biological  
SPECIALTIES: Aquaculture: shellfish, Shellfish: crustaceans, habitat, molluscs  
SPILL EXPERIENCE: NESTUCCA  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 144

110. HARDING, LEE E.  
Environment Canada  
Marine & Estuarine Group  
224 West Esplanade  
North Vancouver, BC V7M 3H7  
wk 604/466-2917  
fax 604/466-6858  
hm 604/469-0643  
OCCUPATION: Environmental Assessment  
DISCIPLINE: Biological  
SPECIALTIES: Biological sensitivity mapping, Spills: environmental coordinator, fate and effects monitoring, impact assessment, monitoring: chemical, oil-distribution mapping  
SPILL EXPERIENCE: NESTUCCA, EXXON VALDEZ  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 574

111. HARPER, JOHN R.  
Harper Environmental Services  
10774 Derrick Rd  
Sidney, BC V8L 3R9  
wk 604/655-4035  
fax 604/655-1290  
hm 604/655-4035  
OCCUPATION: Coastal Geomorphologist  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Coastal: geomorphology, mapping, oilspill sensitivity mapping, Countermeasures: shoreline cleanup, Spills: fate and effects monitoring, oil-distribution mapping  
SPILL EXPERIENCE: EXXON VALDEZ, MV PUERTO RICAN, BIOS  
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Maritimes  
EMPLOYER: Private  
RECORD NO.: 303

112. HART, WAYNE E.  
Petro-Canada  
9009 - 102 Street  
Grande Prairie, AB T8V 2V4  
wk 403/358-2180  
fax 403/532-8518  
hm 403/532-6343  
OCCUPATION: Environmental Advisor  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: equipment general, Spills: environmental coordinator, logistics, on-scene commander, public relations  
SPILL EXPERIENCE: Scotia Shelf Dispersant Trials, Chronic Spills - Alberta Inland Waters  
REGIONAL EXPERIENCE: Maritimes  
EMPLOYER: Private  
RECORD NO.: 1611

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<table>
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<th>Record No.</th>
<th>Name</th>
<th>Designation</th>
<th>Address and Contacts</th>
<th>Region and Employment</th>
<th>Occupation and Specialties</th>
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<tbody>
<tr>
<td>570</td>
<td>Harvey-Clark, Chris</td>
<td>wk 604/228-6283</td>
<td>University of British Columbia Animal Care Centre 6159 South Campus Road Vancouver, BC V6T 1W5</td>
<td>Pacific Employer: University</td>
<td>Occupation: Veterinarian Disciplines: Biological Specialities: Birds: oil effects on, raptors, rehabilitation, seabirds, Marine mammals: oil effects on, mammals: pinnipeds Spill Experience: Nestucca, Exxon Valdez, Chronic Spills - Burrard Inlet</td>
</tr>
<tr>
<td>1547</td>
<td>Hill, Phil R.</td>
<td>wk 902/465-5128</td>
<td>Hill Geoscience Research 1 Research Drive Dartmouth, NS B2Y 4M9</td>
<td>None</td>
<td>Occupation: Geologist Disciplines: Physical/Chemical Specialties: Coastal: geomorphology, mapping, oilspill sensitivity mapping, processes</td>
</tr>
<tr>
<td>1524</td>
<td>Harwood, Lois A.</td>
<td>wk 403/979-2828</td>
<td>Joint Secretariat P. O. Box 2120 Inuvik, NT X0E 0T0</td>
<td>Beaufort Sea Employer: Private</td>
<td>Occupation: Marine Mammal Biologist Disciplines: Biological Specialities: Marine mammals: oil effects on, mammals: pinnipeds, whales, Subsistence resources Spill Experience: None Region: Beaufort Sea</td>
</tr>
<tr>
<td>1555</td>
<td>Hill, Ronald</td>
<td>wk 519/862-2281</td>
<td>Petroleum Industry Marine Environment Coop. 291 St. Clair Parkway Corunna, ON N0N 1G0</td>
<td>Great Lakes &amp; St. Lawrence Employer: Other</td>
<td>Occupation: Training Co-ordinator Disciplines: Other Specialities: Countermeasures: equipment general, operations, Spills: logistics, management/planning, on-scene commander Spill Experience: Spills - Great Lakes &amp; St. Lawrence Region: Great Lakes &amp; St. Lawrence</td>
</tr>
<tr>
<td>1256</td>
<td>Hobler, Philip</td>
<td>wk 604/291-3135</td>
<td>Department of Archaeology Simon Fraser University Burnaby, BC V5A 1S6</td>
<td>University Employer: Other</td>
<td>Occupation: Archaeologist Disciplines: Cultural Specialities: Archaeology: coastal, ethnohistory, excavations, resource mapping, water-logged sites Spill Experience: None Region: Pacific</td>
</tr>
<tr>
<td>1528</td>
<td>Hogan, Holly A.</td>
<td>wk 709/754-7571</td>
<td>P. O. Box 9996 Station B St. John's, NF A1A 4L5</td>
<td>Newfoundland Employer: Other</td>
<td>Occupation: Seabird Biologist Disciplines: Biological Specialities: Birds: habitat, migratory, oil effects on, rehabilitation, seabirds, Marine mammals: whales Spill Experience: Chronic Spills - Newfoundland Region: Newfoundland &amp; Labrador</td>
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1 June 1991
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<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Phone</th>
<th>Fax</th>
<th>Home</th>
<th>Address</th>
<th>City, Province, Zip</th>
<th>Occupation</th>
<th>Discipline</th>
<th>Specialties</th>
<th>Spill Experience</th>
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<tr>
<td>121</td>
<td>HOOPER, BOB</td>
<td>wk: 709/737-7494</td>
<td>fax: 709/737-3018</td>
<td>hm: 709/753-1707</td>
<td>Memorial University of Newfoundland, Marine Biology Department, St. John's, NF A1B 3X9</td>
<td></td>
<td>Marine Biologist</td>
<td>Biological</td>
<td>Ecology, Habitat, Ice Ecology</td>
<td>Chronic Spills - Newfoundland &amp; Labrador</td>
<td>Newfoundland &amp; Labrador</td>
<td>University</td>
<td>1028</td>
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<tr>
<td>124</td>
<td>HOWES-JONES, DARYL</td>
<td>wk: 416/672-9921</td>
<td>fax: 416/672-7784</td>
<td>hm: 519/748-4626</td>
<td>Trow, Dames and Moore, 7560 Airport Road, Mississauga, ON L4T 2H5</td>
<td></td>
<td>Environmental Planner &amp; Sr. Biologist</td>
<td>Biological</td>
<td>Biostatistics, Birds: Distributions, Habitat, Management, Migratory Rehabilitation</td>
<td>None</td>
<td>Maritimes, Great Lakes &amp; St. Lawrence River</td>
<td>Private</td>
<td>1650</td>
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<tr>
<td>127</td>
<td>JANSSEN, HUBERT</td>
<td>wk: 403/262-9877</td>
<td>fax: 403/266-5817</td>
<td>hm: 403/271-8890</td>
<td>Telesat Canada, #710, 407 Second St, SW, Calgary, AB T2P 2Y3</td>
<td></td>
<td>Telecommunications Specialist</td>
<td>Other</td>
<td>Spills: Communications</td>
<td>Rio Orinoco</td>
<td>Pacific, Beaufort Sea, Eastern Arctic, Newfoundland &amp; Labrador, Maritimes, Great Lakes &amp; St. Lawrence River</td>
<td>Private</td>
<td>1510</td>
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<tr>
<td>128</td>
<td>JOHNSON, EARL</td>
<td>wk: 709/549-2289</td>
<td>fax:</td>
<td>hm: 709/549-2289</td>
<td>ESRF Management Board, North Harbour, NF A06 2H0</td>
<td></td>
<td>Fisherman</td>
<td>Other</td>
<td>Fish: Commercial, Demersal Fisheries, Oil Effects</td>
<td>None</td>
<td>Maritimes, Great Lakes &amp; St. Lawrence River</td>
<td>Private</td>
<td>1615</td>
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</tbody>
</table>
129. KEDDIE, GRANT
Royal British Columbia Museum
675 Belleville Street
Victoria, BC V8V 1X4

OCCUPATION: Archaeologist
DISCIPLINE: Cultural
SPECIALTIES: Archaeology; coastal, ethnohistory, excavations, resource mapping
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Provincial
RECORD NO.: 1257

130. KNIGHT, KATHY
Nfld. Dept. of Environment & Lands
Environmental Investigations
Elizabeth Towers
St. John’s, NF A1B 1R9

OCCUPATION: Environmental Specialist
DISCIPLINE: Biological
SPECIALTIES: Algae: Intertidal, Subtidal, Countermeasures: disposal, equipment general, Spills: environmental coordinator, on-scene commander
SPILL EXPERIENCE: Chronic Spills - Newfoundland
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Provincial
RECORD NO.: 1067

131. KOELLER, PETER A.
Dept. of Fisheries and Oceans
Bedford Institute of Oceanography
P.O. Box 1005
Dartmouth, NS B2Y 4A2

OCCUPATION: Administrator
DISCIPLINE: Physical/Chemical
SPECIALTIES: Spills: fate and effects monitoring, impact assessment, modelling, monitoring: biological, chemical, physical
SPILL EXPERIENCE: KURDISTAN, ARROW
REGIONAL EXPERIENCE: Eastern Arctic, Maritimes
EMPLOYER: Provincial
RECORD NO.: 1093

132. KOHLMAN, DENNIS J.
Petro-Canada
Box 2844
150 Sixth Avenue SW
Calgary, AB T2P 3E3

OCCUPATION: Biologist
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, pumps, shoreline cleanup, skimmers, Spills: ice-oil interaction, on-scene commander
SPILL EXPERIENCE: Smoky River, Latorrell River Spill
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Private
RECORD NO.: 1531

133. LAFOREST, MICHEL
Biogene Inc.
840, rue Ste Therese, #225
Quebec, PQ G1N 1S7

OCCUPATION: Bioremediation Specialist
DISCIPLINE: Biological
SPECIALTIES: Bioremediation, Countermeasures: disposal, Environmental: chemistry, impact, Microbiology, Spills: impact assessment
SPILL EXPERIENCE: CANTANORIA
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
EMPLOYER: Private
RECORD NO.: 1204

134. LANE, PATRICIA A.
P. Lane and Associates Limited
5439 Cogswell Street
Halifax, NS B3J 1R1

OCCUPATION: Senior Ecologist
DISCIPLINE: Biological
SPILL EXPERIENCE: EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific, Newfoundland & Labrador, Maritimes
EMPLOYER: Private
RECORD NO.: 1100

135. LANGLIER, KEN
Island Veterinary Hospital
1621 Townsend Road
Nanaimo, BC V9S 1N3

OCCUPATION: Veterinarian
DISCIPLINE: other
SPECIALTIES: Birds: raptors, rehabilitation, waterfowl, Marine mammals: rehabilitation, mammals: whales, Toxicology
SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private
RECORD NO.: 134

136. LAWRENCE, MICHAEL J.
North/South Consultants Inc.
202 - 1475 Chevrier Blvd
Winnipeg, MB R2J 1Y7

OCCUPATION: Fisheries Habitat Biologist
DISCIPLINE: Biological
SPECIALTIES: Biological sensitivity mapping, Environmental: impact, Estuarine: ecology, Fish: anadromous, habitat, oil effects on
SPILL EXPERIENCE: Chronic Spills - Tuktoyaktuk, Chronic Spills - Beaufort Sea
REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic
EMPLOYER: Private
RECORD NO.: 1688
137. LEA, BRIAN

wk 604/752-3438
fax 604/248-4932

Brian Lea & Associates
Group Box 260, C-2
RR #2
Qualicum Beach, BC V9R 2T0

OCCUPATION: Ocean Project Manager
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, operations, vessels, Spills: logistics, management/planning, on-scene commander
SPILL EXPERIENCE: COOSEA
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes
EMPLOYER: Private
RECORD NO.: 1129

141. LEMON, MOIRA

wk 604/964-8546
hm 604/964-2953

Canadian Wildlife Service
Environment Canada
Box 340
Delta, BC V4K 3Y3

OCCUPATION: Wildlife Technician
DISCIPLINE: Biological
SPECIALTIES: Birds: distributions, habitat, population studies, seabirds
SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal
RECORD NO.: 532

138. LEDREW, BEVIN R.

wk 709/576-1458
fax 709/576-2126

LaDrew, Fudge & Associates
607 Torbay Road
P.O. Box 9770, Stn. B
St. John's, NF A1A 2Y3

OCCUPATION: Fisheries Biologist
DISCIPLINE: Biological
SPILL EXPERIENCE: RIO ORINOCO, Chronic Spills - Newfoundland
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Private
RECORD NO.: 1022

142. LERICHE, LAURENT J.A.

wk 514/253-9170
fax 514/253-9545

Groupe Sanivan
1705 - 3 Avenue
Montreal, PQ H1B 5M9

OCCUPATION: Manager, Emergency Services
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, burning, disposal, equipment design, general, pumps
SPILL EXPERIENCE: Chronic Spills - Great Lakes & St. Lawrence
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River, Maritimes
EMPLOYER: Private
RECORD NO.: 1224

139. LEE, JACQUE S.

hm 604/752-5934

General Delivery
588 Hemlock Street
Qualicum Beach, BC V0R 2T0

OCCUPATION: Marine Biologist
DISCIPLINE: Biological
SPECIALTIES: Countermeasures: shoreline cleanup, Invertebrates
SPILL EXPERIENCE: Greys Harbour Spill - Washington
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private
RECORD NO.: 96

143. LEVY, ERIC M.

wk 902/426-3658
fax 902/426-7827

Department of Fisheries and Oceans
Bedford Institute of Oceanography
P. O. Box 1006
Dartmouth, NS B2Y 4A2

OCCUPATION: Scientist/Chemist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Bioremediation, Hydrocarbon chemistry: analyses, chemistry: sampling, techniques, weathering
SPILL EXPERIENCE: ARROW, KURDISTAN, AMOCO CADIZ
REGIONAL EXPERIENCE: Eastern Arctic, Maritimes
EMPLOYER: Federal
RECORD NO.: 1627

140. LEE, KENNETH

wk 418/775-6592
fax 418/775-6542
hm 418/725-3289

Department of Fisheries & Oceans
Maurice Lamontagne Institute
P. O. Box 1000
Mont-joli, PQ G5H 3Z4

OCCUPATION: Research Scientist
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: shoreline cleanup, Microbiology, Oil: dispersants, Spills: fate and effects monitoring, impact assessment
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Eastern Arctic, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal
RECORD NO.: 1330

144. LOUGHRUP, ALLAN F.

wk 902/566-7963
fax 902/566-7948
hm 902/874-8725

Marine Emergencies Branch
Canadian Coast Guard
P.O. Box 1270
Charlotte, PE C1A 7M8

OCCUPATION: Buoy Maintenance
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, burning, disposal, equipment general, monitoring, operations
SPILL EXPERIENCE: KURDISTAN, Imperial Oil Spill - Charlottetown
REGIONAL EXPERIENCE: Maritimes
EMPLOYER: Federal
RECORD NO.: 1657

1 June 1991
### NATIONAL LISTINGS

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<th>No.</th>
<th>Name</th>
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<tr>
<td>145</td>
<td>MACGREGOR, CLIVE</td>
<td>Chemical Oceanographer</td>
<td>Physical/Chemical</td>
<td>Environmental chemistry, Hydrocarbon chemistry: sampling, Spills: impact assessment, monitoring; chemical, oil-distribution mapping, Water quality: pollutants</td>
<td>Uniak G72 Blowout</td>
<td>Newfoundland &amp; Labrador, Maritimes</td>
<td>Private</td>
<td>1098</td>
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<tr>
<td>146</td>
<td>MACKAY, DON</td>
<td>Professor</td>
<td>Physical/Chemical</td>
<td>Hydrocarbon chemistry: weathering, Oil: dispersants, properties, Spills: fate and effects monitoring, modelling, monitoring; chemical</td>
<td>BIOS</td>
<td>Beaufort Sea, Great Lakes &amp; St. Lawrence River</td>
<td>University</td>
<td>1316</td>
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<tr>
<td>147</td>
<td>MACKAY, RON C.</td>
<td>Marine Emergency Officer</td>
<td>Countermeasures</td>
<td>Birds: oil effects on, rehabilitation, Countermeasures: booms, burning, disposal, experimentation</td>
<td>Chronic Spills - Maritimes, RIO ORINOCO</td>
<td>Maritimes</td>
<td>Federal</td>
<td>1658</td>
</tr>
<tr>
<td>148</td>
<td>MACKAY, WILLIAM F.</td>
<td>Emergency Preparedness Manager</td>
<td>Countermeasures</td>
<td>Remote Sensing: aircraft, Spills: communications, logistics, management/planning, on-scene commander, public relations</td>
<td>EXXON VALDEZ, Chronic Spills - Great Lakes &amp; St. Lawrence</td>
<td>Pacific, Beaufort Sea, Eastern Arctic, Newfoundland &amp; Labrador, Maritimes, Great Lakes &amp; St. Lawrence River</td>
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<tr>
<td>149</td>
<td>MACKIE, BILL</td>
<td>Manager</td>
<td>Countermeasures</td>
<td>Countermeasures: booms, burning, equipment specifications, operations, pumps, skimmers</td>
<td>EXXON VALDEZ, Chronic Spills - Beaufort Sea</td>
<td>Pacific, Beaufort Sea</td>
<td>Private</td>
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<td>150</td>
<td>MACKINTOSH, MIKE</td>
<td>Biologist</td>
<td>Biological</td>
<td>Birds: rehabilitation, seabirds, shorebirds, waterfowl, Marine mammals: oil effects on, mammals: sea otters</td>
<td>EXXON VALDEZ, Chronic Spills - Vancouver Harbour</td>
<td>Pacific</td>
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<td>548</td>
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<tr>
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<td>MACKNIGHT, SCOTT</td>
<td>Chemical Oceanographer</td>
<td>Physical/Chemical</td>
<td>Environmental chemistry, chemistry, impact, Water quality: estuarine, quality: monitoring, pollutants</td>
<td>EXXON VALDEZ, Chronic Spills - Beaufort Sea</td>
<td>Pacific</td>
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</tr>
</tbody>
</table>

1 June 1991
1991 CANADIAN DIRECTORY OF MARINE OILSPLILL SPECIALISTS

153. MARKO, JOHN R.
Arctic Sciences Limited
1986 Mills Road
R.R. #2
Sidney, BC V8L 3S1

OCCUPATION: Physicist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Ice forecasting, Remote Sensing; interpretation, Sensing; satellite, Spills; ice-oil interaction, impact assessment, modelling
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes
EMPLOYER: Private

154. MARRIE, PATRICK
Nfld. Dept. of Environment & Lands
Elizabeth Towers
100 Elizabeth Avenue
St. John’s, NF A1B 1R9

OCCUPATION: Environmental Specialist
DISCIPLINE: Biological
SPECIALTIES: Countermeasures: equipment general, shoreline cleanup, Spills: environmental coordinator, on-scene commander
SPILL EXPERIENCE: Chronic Spills - Newfoundland & Labrador
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Provincial

155. MARTIN, VINCENT
Environmental Protection Service
Environment Canada
1179 Bleury Street
Montreal, PQ H3B 3H9

OCCUPATION: Emergency Response Officer
DISCIPLINE: Countermeasures
SPECIALTIES: Coastal: mapping, Countermeasures: equipment general, shoreline cleanup, Hydrocarbon chemistry: sampling, Spills: environmental coordinator, oil-distribution mapping
SPILL EXPERIENCE: RIO MINOCO, MINERVA
REGIONAL EXPERIENCE: Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal

156. MATTHEWS, RAYMOND T.
Nfld. Dept. of Environment & Lands
Elizabeth Towers
100 Elizabeth Avenue
St. John’s, NF A1B 1R9

OCCUPATION: Environmental Supervisor
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: burning, disposal, equipment general, operations, shoreline cleanup, Spills: monitoring: physical
SPILL EXPERIENCE: Chronic Spills - Newfoundland
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes
EMPLOYER: Provincial

157. MCALLISTER, IAN
McAllister Engineering Limited
2040 West 12th Avenue
Vancouver, BC V6J 2G2

OCCUPATION: Engineer
DISCIPLINE: Countermasures
SPECIALTIES: Countermasures: booms, burning, equipment general, specifications, operations, shoreline cleanup
SPILL EXPERIENCE: ERAWAN/SUN DIAMOND
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Private

158. MCCOLL, WALLACE D.
Innotech Aviation, Remote Sensing Div.
Suite 102, 6 Gurdwara Road
Nepean, ON K2E 8A3

OCCUPATION: Program Manager, Remote Sensing
DISCIPLINE: Countermeasures
SPILL EXPERIENCE: ARROW, KURDISTAN, Uniake G72 Blowout, EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific, Eastern Arctic, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River, Beaufort Sea
EMPLOYER: Private

159. MCCOMISKEY, J.E.
Canada-Newfoundland Offshore Petroleum Board
5th Floor, T-D Place
140 Water Street
St. John’s, NF A1C 6H6

OCCUPATION: Manager, Environmental Affairs
DISCIPLINE: Other
SPECIALTIES: Spills: management/planning
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Other

160. MCCUBBIN, RICK
Hibernia Management and Development Co.
Suite 1000, 100 New Gower Street
St. John’s, NF A1C 6K3

OCCUPATION: Environmental Coordinator
DISCIPLINE: Biological
SPECIALTIES: Bioassay testing, Habitat: management, Shellfish: habitat, Spills: environmental coordinator, Water quality: monitoring
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Private

-34-
161. MCCULLOCH, WALLY

Chemonics Industries (Canada) Ltd.
455 Dene Drive
Kamloops, BC V2H 1J1

OCCUPATION: Manager, Foam & Equipment
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: burning
SPILL EXPERIENCE: Chronic Spills - Beaufort Sea
REGIONAL EXPERIENCE: Beaufort Sea
EMPLOYER: Private

RECORD NO.: 1610

162. MCDONALD, JOHN W.

ESL Environmental Sciences Limited
Seakem Group Ltd.
2045 Mills Road
Sidney, BC V8L 3S8

OCCUPATION: Physical Oceanographer
DISCIPLINE: Physical/Chemical
SPECIALTIES: Biological sensitivity mapping, Coastal: oilspill sensitivity mapping, Oceanography: physical, Spills: impact assessment, oil-distribution mapping
SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private

RECORD NO.: 319

163. MCELDERREY, H.

Archipelago Marine Research Ltd.
11-1140 Fort Street
Victoria, BC V8V 3K8

OCCUPATION: Fisheries Biologist
DISCIPLINE: Biological
SPECIALTIES: Benthos: ecology, invertebrates, Fish: commercial: demersal fisheries, commercial: pelagic fisheries, demersal fish, ecology
SPILL EXPERIENCE: NESTUCCA, EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Private

RECORD NO.: 114

164. MCGONIGAL, DAVE

Canatuc Consultants Ltd.
100, 3553 - 31 St. NW
Calgary, AB T2L 2K7

OCCUPATION: Ice and Ocean Engineering
DISCIPLINE: Other
SPECIALTIES: Coastal: geomorphology, Ice forecasting, Oceanography: physical, Spills: environmental coordinator, logistics
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Beaufort Sea
EMPLOYER: Private

RECORD NO.: 1537

165. MCGURK, MICHAEL D.

Triton Environmental Consultants Ltd.
120-13511 Commerce Parkway
Richmond, BC V6V 2L1

OCCUPATION: Fisheries Scientist
DISCIPLINE: Biological
SPECIALTIES: Fish: oil effects on, pelagic fish, Oceanography: biological, physical, Spills: impact assessment, monitoring: biological
SPILL EXPERIENCE: EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private

RECORD NO.: 549

166. MCIKERNEY, JOHN

Bamfield Marine Station
Bamfield, BC V0R 1B0

OCCUPATION: Biologist
DISCIPLINE: Biological
SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific
EMPLOYER: University

RECORD NO.: 97

167. MCKELVEY, R.

Canadian Wildlife Service
Environment Canada
P.O. Box 340
Della, BC V4K 3Y3

OCCUPATION: Waterfowl Resource Manager
DISCIPLINE: Biological
SPECIALTIES: Birds: distributions, habitat, management, seabirds, shorebirds, waterfowl
SPILL EXPERIENCE: NESTUCCA, ARCTURUS, Chronic Spills - BC
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal

RECORD NO.: 138

168. MCKENZIE, BRUCE D.

Alaska Clean Seas
P.O. Box 196010
Anchorage, AK 99519-6010
USA

OCCUPATION: Manager, Planning & Devel. Spill Resp.
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: burning, equipment general, operations, Spills: management/planning
SPILL EXPERIENCE: EXXON VALDEZ, TUTSI II, Chronic Spills - Beaufort Sea
REGIONAL EXPERIENCE: Beaufort Sea
EMPLOYER: Private

RECORD NO.: 1548
<table>
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<th>No.</th>
<th>Name</th>
<th>Occupation</th>
<th>Specialties</th>
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<tr>
<td>169</td>
<td>McLaren, Patrick</td>
<td>Merganser Consulting (Canada) Ltd</td>
<td>Geology</td>
<td>Coastal, geology, mapping, oil spill sensitivity mapping, processes, Spills: fate and effects monitoring, monitoring: physical</td>
<td>Geology</td>
<td>Pacific, Eastern Arctic, Newfoundland &amp; Labrador</td>
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<tr>
<td>170</td>
<td>Miles, Michael</td>
<td>M. Miles and Associates Ltd.</td>
<td>Geology</td>
<td>Coastal: geomorphology, mapping, oil spill sensitivity mapping, processes, Countermeasures: shoreline cleanup, Spills: impact assessment</td>
<td>Geology</td>
<td>Pacific, Beaufort Sea, Newfoundland &amp; Labrador</td>
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<td>171</td>
<td>Moche, Eva</td>
<td>Natural Resources Institute</td>
<td>Geology</td>
<td>Geomorphology, mapping, oil spill sensitivity mapping, processes, Countermeasures: shoreline cleanup, Spills: impact assessment</td>
<td>Geology</td>
<td>Pacific</td>
<td>University of Manitoba</td>
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<tr>
<td>172</td>
<td>Monterey, Dean D.E.</td>
<td>Environmental Emergency Services Branch</td>
<td>Geology</td>
<td>Geomorphology, mapping, oil spill sensitivity mapping, processes, Countermeasures: shoreline cleanup, Spills: logistics, management/planning, on-scene commander</td>
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<td>Pacific</td>
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<td>Montevi, Bill</td>
<td>Memorial University of Newfoundland</td>
<td>Geology</td>
<td>Seabird Biology</td>
<td>Geology</td>
<td>Pacific, Newfoundland &amp; Labrador</td>
<td>University</td>
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<tr>
<td>174</td>
<td>Morgan, Ken</td>
<td>9604 Barnes Place</td>
<td>Geology</td>
<td>Seabird Biology</td>
<td>Geology</td>
<td>None</td>
<td>Private</td>
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<tr>
<td>175</td>
<td>Morris, Dave</td>
<td>Morris Industries Limited</td>
<td>Geology</td>
<td>Engineer</td>
<td>Geology</td>
<td>Pacific</td>
<td>Private</td>
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<td>Morrison, Doug C.</td>
<td>Habitat Protection Section</td>
<td>Geology</td>
<td>Habitat Biology</td>
<td>Geology</td>
<td>Pacific</td>
<td>Provincial</td>
</tr>
</tbody>
</table>
NATIONAL LISTINGS

177. MUNRO, BILL
Wildlife Branch
Ministry of Environment
780 Blanshard Street
Victoria, BC V8V 1X5
WK 604/387-9764
FAX 604/356-9145
HM 604/383-9896
OCCUPATION: Bird Biologist
DISCIPLINE: Biological
SPECIALTIES: Birds: distributions, habitat, management, migratory, raptors, waterfowl
SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Provincial
RECORD NO.: 127

181. NEVILLE, ROBERT A.
Canada Centre for Remote Sensing
2464 Sheffield Road
Ottawa, ON K1A 0Y7
WK 613/998-9060
FAX 613/993-5022
HM 613/726-6517
OCCUPATION: Research Scientist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Remote Sensing: aircraft, Sensing: instrumentation, interpretation
SPILL EXPERIENCE: KURDISTAN, Chronic Spills - Great Lakes & St. Lawrence, COOSRA
REGIONAL EXPERIENCE: Eastern Arctic, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal
RECORD NO.: 1532

182. O'NEIL, R. A.
Canada Centre for Remote Sensing
2464 Sheffield Road
Ottawa, ON K1A 0Y7
WK 613/952-2777
FAX 613/952-9783
OCCUPATION: Remote Sensing Specialist
DISCIPLINE: Other
SPECIALTIES: Coastal: mapping, Remote Sensing: aircraft, Sensing: instrumentation, interpretation, satellite, Spills: oil-distribution mapping
SPILL EXPERIENCE: KURDISTAN, Beaufort Sea Dispersant Trials, COOSRA
REGIONAL EXPERIENCE: Eastern Arctic, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal
RECORD NO.: 1320

183. OLESIUK, PETER F.
Pacific Biological Station
Dept. of Fisheries and Oceans
Hammond Bay Road
Nanaimo, BC V9R 5K6
WK 604/756-7254
FAX 604/756-7053
HM 604/753-3478
OCCUPATION: Marine Mammals Biologist
DISCIPLINE: Biological
SPECIALTIES: Marine mammals: pinnipeds, mammals: sea otters, whales
SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal
RECORD NO.: 523

184. OWENS, EDWARD H.
Woodward-Clyde Consultants
3440 Bank of California Centre
900 4th Avenue
Seattle, WA 98164
WK 206/343-7933
FAX 206/343-0513
HM 206/842-6255
OCCUPATION: Geologist
DISCIPLINE: Countemeasures
SPECIALTIES: Coastal: geomorphology, mapping, oilspill sensitivity mapping, processes, Countemeasures: shoreline cleanup, Spills: fate and effects monitoring
SPILL EXPERIENCE: EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Private
RECORD NO.: 1134
185. PALCZYNSKI, RICHARD J.

P. Lane & Associates Limited
5439 Cogswell Street
Halifax, NS B3J 1R1

wk 902/423-8197
fax 902/429-8089
hm 902/542-9891

OCCUPATION: Environmental Engineer
DISCIPLINE: Physical/Chemical
SPECIALTIES: Countermeasures: experimentation, Oil: properties, Spills: environmental coordinator, impact assessment, modelling, monitoring: physical
SPILL EXPERIENCE: Texaco Nigeria
REGIONAL EXPERIENCE: Maritimes
EMPLOYER: Private

RECORD NO.: 1215

186. PARE, JOCelyn

Environment Canada
River Road Environmental Tech. Ctr.
3439 River Road
Ottawa, ON K1A 0B3

wk 613/998-9622
fax 613/991-9485
hm 613/521-7275

OCCUPATION: Analytical Programs
DISCIPLINE: Physical/Chemical
SPECIALTIES: Hydrocarbon chemistry: analyses
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal

RECORD NO.: 1216

187. PARK, JOHN M.

ASL Analytical Services Laboratories Ltd.
1988 Triumph Street
Vancouver, BC V5L 1K5

wk 604/253-4188
fax 604/253-6700
hm 604/988-3522

OCCUPATION: Analytical Chemist
DISCIPLINE: Physical/Chemical
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private

RECORD NO.: 1675

188. PARSONS, JOHN L.

John Parsons and Associates
P.O. Box 605
Dartmouth, NS B2Y 3Y5

wk 902/469-2420
hm 902/469-2420

OCCUPATION: Environmental Biologist
DISCIPLINE: Biological
SPECIALTIES: Birds: distributions, oil effects on, rehabilitation, Environmental: impact, Marine mammals: oil effects on, mammals: pinnipeds
SPILL EXPERIENCE: KURDISTAN, Uniake G72 Blowout
REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes
EMPLOYER: Private

RECORD NO.: 1101

189. PARSONS, TIMOTHY R.

University of British Columbia
Department of Oceanography
6270 University Boulevard
Vancouver, BC V6T 1W5

wk 604/228-4273
fax 604/228-6091
hm 604/224-1300

OCCUPATION: Professor
DISCIPLINE: Biological
SPILL EXPERIENCE: TORREY CANYON, AMOCO CADIZ, IRISH STARDUST
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: University

RECORD NO.: 106

190. PAYNE, JERRY F.

Department of Fisheries and Oceans
Northwest Atlantic Fisheries Centre
P.O. Box 5667
St. John’s, NF A1C 5X1

wk 709/772-2089
fax 709/772-2156
hm 709/754-5833

OCCUPATION: Environmental Toxicologist
DISCIPLINE: Biological
SPECIALTIES: Fish: oil effects on, tainting. Oil: dispersants, toxicity, Toxicology, Water quality: monitoring
SPILL EXPERIENCE: Chronic Spills - Newfoundland & Labrador
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Federal

RECORD NO.: 1045

191. PEACE, L.D.

Emergency Preparedness Canada
P.O. Box 10,000
Victoria, BC V8W 3A5

wk 604/661-3621
fax 604/661-3995

OCCUPATION: Emergency Preparedness
DISCIPLINE: Other
SPECIALTIES: Spills: management/planning
SPILL EXPERIENCE: NESTUCCA, EXDON VALEZ
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal

RECORD NO.: 571

192. PELLETIER, E.

INRS - Oceanologie
310 Avenue des Ursulines
Rimouski, PQ G5L 3A1

wk 418/724-1764
fax 418/723-7234

OCCUPATION: Marine Chemist
DISCIPLINE: Physical/Chemical
SPILL EXPERIENCE: CZANTORIA, Pointe - Levis
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
EMPLOYER: Université

RECORD NO.: 1333
193. PELLY, GORDON
wk 709/772-4285
fax 709/772-5097
hm 709/772-0905
Environmental Protection Service
Environment Canada
P.O. Box 5037
St. John's, NF A1C 5V3

OCCUPATION: Environmental Emergency Co-ordinator
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: operations, operations, shoreline cleanup, Hydrocarbon chemistry: sampling, Spills: environmental coordinator, management/planning
SPILL EXPERIENCE: Chronic Spills - Newfoundland & Labrador
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Federal
RECORD NO.: 1062

194. PERCY, ROGER J.
wk 902/426-2576
fax 902/426-9709
hm 902/889-2260
Environment Canada
15th Floor, Queen Square
45 Alderney Drive
Dartmouth, NS B2Y 2N6

OCCUPATION: Biologist
DISCIPLINE: Biological
SPECIALTIES: Countermeasures: monitoring, shoreline cleanup, Spills: environmental coordinator, impact assessment, management/planning, monitoring: biological
SPILL EXPERIENCE: KURDISTAN, CANVARQUE, Unilate G72 Blowout
REGIONAL EXPERIENCE: Beaufort Sea, Newfoundland & Labrador, Maritimes
EMPLOYER: Federal
RECORD NO.: 1097

195. PETT, ROBERT J.
wk 902/423-8197
fax 902/429-8089
hm 902/429-3085
P. Lane and Associates Limited
5439 Cogswell Street
Halifax, NS B3J 1R1

OCCUPATION: Environmental Consultant
DISCIPLINE: Physical/Chemical
SPILL EXPERIENCE: EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private
RECORD NO.: 11

196. PIlKINGTON, ROGER
wk 403/282-5321
fax 403/289-0465
hm 403/239-0370
Canacat Consultants Limited
110, 3553 - 31 St. N.W.
Calgary, AB T2L 2K7

OCCUPATION: Consultant
DISCIPLINE: Other
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Beaufort Sea
EMPLOYER: Private
RECORD NO.: 1217

197. PITCHER, DAVID
wk 902/468-7777
fax 902/468-9009
hm 902/466-6668
Jacques Whitford & Associates
3 Spectacle Lake Drive
Dartmouth, NS B3B 1W8

OCCUPATION: Biologist
DISCIPLINE: Biological
SPECIALTIES: Biological sensitivity mapping, Coastal: oilspill sensitivity mapping, Countermeasures: shoreline cleanup, Environmental: impact, Fish: commercial: demersal fisheries, commercial: pelagic fisheries
SPILL EXPERIENCE: SOUTH ANGELA
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes
EMPLOYER: Private
RECORD NO.: 8

198. POLYCK, JOHN A.
wk 403/867-3227
fax 403/867-4070
hm 403/868-4983
DIAND (Northern Affairs)
200 Range Road
Whitehorse, YT Y1A 3V1

OCCUPATION: Water Management
DISCIPLINE: Physical/Chemical
SPECIALTIES: Environmental: impact, Spills: environmental coordinator, management/planning, monitoring: physical, on-scene commander, public relations
SPILL EXPERIENCE: Chronic Spills - Yukon
REGIONAL EXPERIENCE: Beaufort Sea
EMPLOYER: Maritimes
RECORD NO.: 1219

199. POND, STEPHEN G.
wk 604/666-0002
fax 604/666-6858
hm 604/987-1140
Conservation and Protection
Environment Canada
224 West Esplanade
North Vancouver, BC V7M 3H7

OCCUPATION: Biologist
DISCIPLINE: Biological
SPECIALTIES: Countermeasures: equipment general, Spills: environmental coordinator, impact assessment, management/planning
SPILL EXPERIENCE: NESTUCCA, Chronic Spills - BC
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal
RECORD NO.: 1136

200. PORTER, STUART
wk 709/772-4695
fax 709/772-2593
hm 709/772-1575
Atmospheric Environment Service
Building 303, Pleasantville
P.O. Box 9490
St. John's, NF A1A 2Y4

OCCUPATION: Scientific Meteorologist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Meteorology: forecasting
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Federal
RECORD NO.: 1007

1 June 1991
<table>
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<th>No.</th>
<th>Name</th>
<th>Telephone 1</th>
<th>Telephone 2</th>
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<th>Address/Desc</th>
<th>Occupation</th>
<th>Specialties/Activities</th>
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<tr>
<td>204</td>
<td>PUNT, MONIQUE M.</td>
<td>wk 613/991-1840</td>
<td>fax 613/991-1673</td>
<td>hm 613/594-3496</td>
<td>Emergencies Engineering Division Environment Canada 3439 River Road Ottawa, ON K1A 0H3</td>
<td>OCCUPATION: Chemical Engineer</td>
<td>DISCIPLINE: Countermeasures SPECIALTIES: Countermeasures: booms, burning, disposal, equipment design, experimentation, skimmers SPILL EXPERIENCE: NESTUCCA REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland &amp; Labrador, Maritime, Great Lakes &amp; St. Lawrence River</td>
<td>EMPL: Federal</td>
<td>RECORD NO.: 1221</td>
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<tr>
<td>206</td>
<td>RICHARDSON, W. JOHN</td>
<td>wk 416/833-1244</td>
<td>fax 416/833-1255</td>
<td>hm 416/226-6308</td>
<td>LGL Limited P.O. Box 280 King City, ON L0G 1K0</td>
<td>OCCUPATION: Ornithology/Marine Mammalogy</td>
<td>DISCIPLINE: Biological SPECIALTIES: Birds: distributions, migratory, population studies, Marine mammals: oil effects on, mammals: whales, Spills: impact assessment SPILL EXPERIENCE: BI05 REGIONAL EXPERIENCE: Beaufort Sea, Maritime, Great Lakes &amp; St. Lawrence River</td>
<td>EMPL: Private</td>
<td>RECORD NO.: 1561</td>
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</tr>
</tbody>
</table>
209. RIVET, CLAUDE
Environmental Protection Service
2nd Floor
1170 Bienne Street
Montreal, PQ H3B 3H9

OCCUPATION: Operations Manager
DISCIPLINE: Countermeasures
SPECIALTIES: Coastal: mapping. Countermeasures: shoreline cleanup,
Environmental: chemistry, Spills: environmental coordinator,
management/planning, on-scene commander
SPILL EXPERIENCE: CZANTORIA, Pointe - Levis
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
EMPLOYER: Federal

210. ROBERTSON, IAN
Gater Lee
6400 Roberts Street, Suite 490
Burnaby, BC V5G 4C9

OCCUPATION: Wildlife Biologist
DISCIPLINE: Biological
SPECIALTIES: Birds: distributions, seabirds, waterfowl, Spills:
management/planning
SPILL EXPERIENCE: Salmon River, URQUIOLA, Stetson BC
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Private

211. ROBERTSON, JULIA
Vancouver Public Aquarium
P.O.Box 3232
Vancouver, BC V6B 3X8

OCCUPATION: Avciculturist
DISCIPLINE: Biological
SPECIALTIES: Birds: management, rehabilitation, seabirds, shorebirds,
waterfowl
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private

212. ROBILLIARD, GORDON A.
ENTRIX INC.
2125 Oak Grove Road
Suite 300
Walnut Creek, CA 94598
USA

OCCUPATION: Marine Ecologist
DISCIPLINE: Biological
SPECIALTIES: Benthos: ecology, Biological sensitivity mapping, Spills:
environmental coordinator, fate and effects monitoring, impact assessment,
monitoring: biological
SPILL EXPERIENCE: MI PUERTO RICAN, EXXON VALDEZ,
AMERICAN TRADER, Texaco Barge - Anacortes, Chevron Hawaiian Pipeline
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Private

213. ROBSON, WISHART
Petro-Canada
P.O. Box 2844
Calgary, AB T2P 3E3

OCCUPATION: Environmental & Safety Specialist
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: disposal, shoreline cleanup, Environmental:
impact, Spills: management/planning, oil-distribution mapping, on-scene
commander
SPILL EXPERIENCE: BIOS, ALVENUS, METULA, AMOCO CADIZ,
Chronic Spills - Vancouver Harbour
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic,
Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Private

214. RODWAY, MICHAEL S.
Canadian Wildlife Service
Environment Canada
P.O. Box 340
Delta, BC V4K 3Y3

OCCUPATION: Seabird Biologist
DISCIPLINE: Biological
SPECIALTIES: Birds: distributions, habitat, population studies, seabirds,
waterfowl, Spills: impact assessment
SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal

215. ROSS, CAL.
Valley Environmental Services
620 Castle Frederick Road
RR #2
Falmouth, NS B0P 1L0

OCCUPATION: Marine Biologist
DISCIPLINE: Biological
SPECIALTIES: Coastal: oilspill sensitivity mapping, Legal: compensation, Oil:
properties, Spills: environmental coordinator, fate and effects monitoring,
management/planning
SPILL EXPERIENCE: IMPERIAL ST. CLAIR, Ixtoc Blowout, IMPERIAL
SARINA, KURDISTAN, Uniake O72 Blowout
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes, Great
Lakes & St. Lawrence River
EMPLOYER: Private

216. ROSS, ST L.
S.L. Ross Environmental Research Ltd.
Suite 200, 717 Belfast Road
Ottawa, ON K1G 0Z4

OCCUPATION: Chemical Engineer
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: equipment general, experimentation, Oil:
dispersants, properties, Spills: management/planning, modelling
SPILL EXPERIENCE: Ixtoc Blowout
REGIONAL EXPERIENCE: Beaufort Sea
EMPLOYER: Private
217. ROWE, R.D.  
University of Calgary  
Mechanical Engineering Dept.  
Calgary, AB  T2N 1N4  
wk 403/220-5788  
fax 403/282-8406  
hm 403/247-3575  
OCCUPATION: Engineering Professor  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Countermeasures: experimentation, Oceanography: physical, Spills: modelling  
SPILL EXPERIENCE: None  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: University  
RECORD NO.: 1225

218. RUSSELL, R.  
* Dept. of Fisheries and Oceans  
South Coast Region  
3225 Stephenson Point Road  
Nanaimo, BC  V9T 1K3  
wk 604/756-7291  
fax 604/758-9600  
OCCUPATION: Habitat Biologist  
DISCIPLINE: Biological  
SPECIALTIES: Algae: Intertidal, Subtidal, Estuarine: habitat, Fish: habitat, Habitat: intertidal, Plants: intertidal  
SPILL EXPERIENCE: NESTUCCA  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 149

219. RUTHERFORD, DOUGLAS  
17 Dick’s Square  
St. John’s, NF  A1C 4A7  
wk 709/739-7535  
hm 709/739-7535  
OCCUPATION: Archaeologist  
DISCIPLINE: Cultural  
SPECIALTIES: Archaeology: coastal, excavations, resource mapping, Benthos: ecology  
SPILL EXPERIENCE: None  
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritimes  
EMPLOYER: Private  
RECORD NO.: 1588

220. RYAN, PIERRE C.  
Canadian Wildlife Service  
Environment Canada  
P.O. Box 9158, Stn. B  
St. John’s, NF  A1A 2X9  
wk 709/772-5585  
fax 709/772-6309  
hm 709/437-6765  
OCCUPATION: Wildlife Biologist  
DISCIPLINE: Biological  
SPECIALTIES: Archaeology: resource mapping, Benthos: ecology, Birds: distributions, waterfowl, Spills: environmental coordinator, monitoring: biological  
SPILL EXPERIENCE: Chronic Spills - Newfoundland  
REGIONAL EXPERIENCE: Newfoundland & Labrador  
EMPLOYER: Federal  
RECORD NO.: 1061

221. SAMSON, PIERRE  
Ultramar Canada Inc.  
Caissie Postale 2055  
Saint Romuald Refinery  
Saint Romuald, PQ  G6W 5M4  
wk 418/837-3641  
fax 418/835-3106  
hm 418/651-5585  
OCCUPATION: Chemical Engineer  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: equipment general, operations, shoreline cleanup, Spills: environmental coordinator, management/planning, on-scene commander  
SPILL EXPERIENCE: Chronic Spills - Great Lakes & St. Lawrence  
REGIONAL EXPERIENCE: Private  
EMPLOYER: Private  
RECORD NO.: 1227

222. SAUNDERS, M.  
Pacific Biological Station  
Dept. of Fisheries and Oceans  
Hammond Bay Road  
Nanaimo, BC  V9R 5K6  
wk 604/756-7154  
fax 604/756-7073  
OCCUPATION: Fisheries Biologist  
DISCIPLINE: Biological  
SPECIALTIES: Fish: commercial: demersal fisheries, commercial: pelagic fisheries, ecology, habitat, population studies  
SPILL EXPERIENCE: None  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 36

223. SEIF, FARHAD  
Petro-Canada  
5140 Yonge Street  
Suite 200  
North York, ON  M2N 6L6  
wk 416/730-2000  
fax 416/730-2151  
OCCUPATION: Manager  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Hydrocarbon chemistry: analyses, sampling, techniques, weathering  
SPILL EXPERIENCE: TOVE COB  
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River  
EMPLOYER: Private  
RECORD NO.: 1560

224. SERGY, GARY  
Technology Development Branch  
Environment Canada  
210 - 4999 9th Avenue  
Edmonton, AB  T6H 1X3  
wk 403/468-8039  
fax 403/455-2615  
hm 403/438-9464  
OCCUPATION: Pollution Emergencies Scientist  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Bioassay testing, Countermeasures: experimentation, shoreline cleanup, Spills: fate and effects monitoring, impact assessment, management/planning  
SPILL EXPERIENCE: BIOS, EXXON VALDEZ  
REGIONAL EXPERIENCE: Pacific, Eastern Arctic, Newfoundland & Labrador  
EMPLOYER: Federal  
RECORD NO.: 1140

1 June 1991
## NATIONAL LISTINGS

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<tr>
<th>No.</th>
<th>Name</th>
<th>Contact Information</th>
<th>Address</th>
<th>Occuption</th>
<th>Discipline</th>
<th>Specialties</th>
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<tr>
<td>225</td>
<td>SEVERIN, WILLIAM J.</td>
<td>wk 416/335-2321, fax 416/681-1195, hm 416/336-6337</td>
<td>Sanivan Inc., 368 Mack Avenue, Sarnia, ON</td>
<td>Manager Industrial Services</td>
<td>Countermeasures: booms, operations, pumps, shoreline cleanup, skimmers, Spills: environmental coordinator</td>
<td>Chronic Spills - Great Lakes &amp; St. Lawrence River</td>
<td>Private</td>
<td>1663</td>
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<tr>
<td>226</td>
<td>SHAW, W.</td>
<td>wk 604/756-7152, fax 604/756-7033, hm 604/756-2137</td>
<td>Pacific Biological Station, Dept. of Fisheries and Oceans, Hammond Bay Road, Nanaimo, BC V9R 5K6</td>
<td>High Seas Fish Biologist</td>
<td>Biological</td>
<td>Fish: commercial, demersal fisheries, commercial, pelagic fisheries, ecology, habitat, pelagic fish, Plankton</td>
<td>Pacific</td>
<td>Federal</td>
<td>185</td>
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<tr>
<td>227</td>
<td>SHORT, LYNNE</td>
<td>wk 604/946-3171, hm 604/946-3171</td>
<td>OWL (Orphaned Wildlife) Rehabilitation Society, 3800 - 72nd Street, Delta, BC V4K 3N2</td>
<td>Raptor Rehabilitation</td>
<td>Other</td>
<td>Birds: raptors, rehabilitation</td>
<td>Pacific</td>
<td>Other</td>
<td>1535</td>
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<tr>
<td>228</td>
<td>SIMMONS, RANDOLPH G.</td>
<td>wk 902/426-6200, fax 902/426-9709, hm 902/435-7760</td>
<td>Environmental Protection Services, Environment Canada, 15th Floor, 45 Alderney Drive, Dartmouth, NS B2Y 2N6</td>
<td>Shoreline Cleanup and Assessment</td>
<td>Countermeasures</td>
<td>Equipment general, shoreline cleanup, Environmental: impact, Spills: impact assessment, management/planning, on-scene commander</td>
<td>KURDISTAN, NESTUCCA, CAMARQUE</td>
<td>Federal</td>
<td>1690</td>
</tr>
<tr>
<td>229</td>
<td>SIMPSON, KIRSTIE E.</td>
<td>wk 403/667-3172, hm 403/663-3440</td>
<td>Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, YT Y1A 3V1</td>
<td>Impact Assessment Biologist</td>
<td>Countermeasures: Biological sensitivity mapping, Coastal: oilspill sensitivity mapping, Countermeasures: shoreline cleanup, Environmental: impact, Subsistence resources, Water quality: monitoring</td>
<td>Exxon Valdez, Chronic Spills - Tuktoyaktuk, Chronic Spills - Northwest T., Chronic Spills - Yukon</td>
<td>Pacific, Beaufort Sea, Eastern Arctic</td>
<td>Federal</td>
<td>1542</td>
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<tr>
<td>230</td>
<td>SIROTA, GARY R.</td>
<td>wk 902/243-8197, fax 902/249-8089, hm 902/860-0471</td>
<td>P. Lane and Associates Limited, 5459 Cogswell Street, Halifax, NS B3J 1R1</td>
<td>Ecotoxicologist</td>
<td>Biological</td>
<td>Algae: Planktonic, Hydrocarbon chemistry: weathering, Microbiology, Oil: dispersants, toxicity, Spills: fate and effects monitoring, ice-oil interaction</td>
<td>Great Lakes &amp; St. Lawrence River</td>
<td>Provincial</td>
<td>1631</td>
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<td>231</td>
<td>SITAR, DAVID E.</td>
<td>wk 403/556-4859, fax 403/556-3968, hm 403/556-2559</td>
<td>Mobil Oil Canada, Box 1210, Olds, AB T0M 1P0</td>
<td>Staff Environmentalist</td>
<td>Countermeasures</td>
<td>Bioremediation, Countermeasures: disposal, equipment general, operations, Hydrocarbon chemistry: sampling, Spills: on-scene commander</td>
<td>None</td>
<td>Pacific</td>
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<td>Name</td>
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<td>SLOAN, NORMAN A.</td>
<td>Dame and Moore, 505 - 700 West Pender Street, Vancouver, BC V6C 1G8</td>
<td>wk 604/683-5585, fax 604/683-7758, hm 604/266-7181</td>
<td>6 Bruce Street, Donovan's Ind. Park, P.O. Box 188, Stn. C, St. John's, NF A1C 5J2</td>
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<td>SNOW, DAVE</td>
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<td>wk 709/772-5522, fax 709/772-4532, hm 709/834-4951</td>
<td>Emergency Preparedness Canada</td>
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<tr>
<td>SNOW, NORMAN B.</td>
<td>Institute of Ocean Sciences, Dept. of Fisheries and Oceans, P.O. Box 6000, Sidney, BC V8L 4B2</td>
<td>wk 403/970-3828, fax 403/970-2610, hm 403/970-4156</td>
<td>Joint Secretariat, P. O. Box 2120, Inuvik, NT X0E 0T0</td>
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<tr>
<td>SMITH, DAVE W.</td>
<td>Canadian Wildlife Service, Environnement Canada, P.O. Box 340, Delta, BC V4K 3Y3</td>
<td>wk 604/946-8546, wk 604/666-0143, fax 604/946-7022, hm 604/584-9219</td>
<td>Counterspill Research Inc., 300 - 1497 Marine Drive, West Vancouver, BC V7T 1B8</td>
<td></td>
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<tr>
<td>SMITH, KEVIN C.</td>
<td>Canadian Coast Guard, 344 Slater Street, 9th Floor, Ottawa, ON K1A 0N7</td>
<td>wk 613/990-3379, fax 613/998-4168, hm 613/226-8537</td>
<td>111 Avenue S.W., Calgary, AB T2P 0L7</td>
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</table>

**1991 CANADIAN DIRECTORY OF MARINE OILSPILL SPECIALISTS**

**OCCUPATION:** Marine Biologist

**DISCIPLINE:** Biological

**SPECIALTIES:** Aquaculture: shellfish, Benthos: ecology, invertebrates, Estuarine: habitat, Oceanography: biological, Shelffish: habitat

**REgIONAL EXPERIENCE:** Pacific

**RECORD NO.:** 1122

**SMILEY, BRIAN D.**

**OCCUPATION:** Marine Advisor-Oceanography

**DISCIPLINE:** Physical/Chemical

**SPECIALTIES:** Biological sensitivity mapping, Environmental: impact, Spills: fate and effects monitoring, impact assessment, monitoring: biological, physical

**REgIONAL EXPERIENCE:** Pacific, NESTUCCA

**RECORD NO.:** 1538

**SMITH, KEVIN C.**

**OCCUPATION:** Training Officer

**DISCIPLINE:** Countermeasures

**SPECIALTIES:** Countermeasures: equipment general, operations: shoreline cleanup, Spills: management/planning, on-scene commander, public relations

**REgIONAL EXPERIENCE:** PRIMROSE, NESTUCCA, KURDISTAN

**RECORD NO.:** 1651

**SPEARING, TED**

**OCCUPATION:** Biologist

**DISCIPLINE:** Biological

**SPECIALTIES:** Birds: oil effects on, Fish: oil effects on, Marine mammals: oil effects on, Oceanography: biological, Spills: fate and effects monitoring, impact assessment

**REgIONAL EXPERIENCE:** Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador

**RECORD NO.:** 1158
241. SPELLER, WAYNE
Petro-Canada Inc., Exploration
P.O. Box 2844
814 PCCW
Calgary, AB T2P 3E5

OCCUPATION: Environment Safety
DISCIPLINE: Countermeasures
SPECIALTIES: Environmental: impact, Spills: fate and effects monitoring, assessment, management/planning, monitoring: biological, on-scene commander

SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private

RECORD NO.: 1318

242. STACEY, PAM J.
Stranded Whale and Dolphin Program of BC
P.O. Box 6244
Victoria, BC V8P 5L5

OCCUPATION: Biologist
DISCIPLINE: Biological
SPECIALTIES: Birds: seabirds, Marine mammals: oil effects on, mammals: pinnipeds, whales, Toxicology

SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private

RECORD NO.: 129

243. STEPHENSON, FREDERICK E.
Institute of Ocean Sciences
Dept. of Fisheries and Oceans
P.O. Box 6000
Sidney, BC V8L 4B2

OCCUPATION: Hydrographer
DISCIPLINE: Physical/Chemical
SPECIALTIES: Oceanography: physical, Spills: monitoring: physical, oil-distribution mapping

SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Federal

RECORD NO.: 551

244. STEVENS, JOSEPH E.
Marine Emergencies Branch
Canadian Coast Guard
P.O. Box 1000
Dartmouth, NS B2Y 3Z8

OCCUPATION: District Marine Emergency Officer
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, operations, pumps, shoreline cleanup, skimmers, vessels

SPILL EXPERIENCE: Chronic Spills - Maritimes
REGIONAL EXPERIENCE: Maritimes
EMPLOYER: Federal

RECORD NO.: 1656

245. STOCKER, MAX
Pacific Biological Station
Dept. of Fisheries and Oceans
Hammond Bay Road
Nanaimo, BC V9R 5K6

OCCUPATION: Fisheries Biologist
DISCIPLINE: Biological
SPECIALTIES: Biostatistics, Fish: commercial: demerall fisheries, commercial: pelagic fisheries, management, pelagic fish, population studies

SPILL EXPERIENCE: EXXON VALDEZ
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal

RECORD NO.: 558

246. STRIGHT, ROD N.
Search & Rescue
Canadian Coast Guard
P.O. Box 1013
Dartmouth, NS B3O 2J1

OCCUPATION: Manager
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: equipment general, operations, vessels, Spills: management/planning, on-scene commander, public relations

SPILL EXPERIENCE: LUCIEN PAQUIN, CAMARQUE, KURDISTAN
REGIONAL EXPERIENCE: Newfoundland & Labrador, Maritime
EMPLOYER: Federal

RECORD NO.: 1086

247. STRONACH, JIM
Seacoast Marine Research Ltd.
820-1200 West 73rd Avenue
Vancouver, BC V6P 6G5

OCCUPATION: Physical Oceanographer
DISCIPLINE: Physical/Chemical
SPECIALTIES: Oceanography: physical, Spills: modelling

SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private

RECORD NO.: 542

248. STRUB, RICHARD
Environment Canada
Conservation & Protection Lab.
4195 Marine Drive
Vancouver, BC V7V 1N8

OCCUPATION: Organic Chemist
DISCIPLINE: Physical/Chemical
SPECIALTIES: Hydrocarbon chemistry: analyses, techniques, weathering, Organic chemistry

SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal

RECORD NO.: 543
249. SUTHERLAND, PATRICIA D.  
Northlands Research  
1154 Beyview Road  
R.R.1  
Woodlawn, ON  K0A 3M0  
wk 613/832-2244  
fax 613/832-2244  
hm 613/832-2244  

OCCUPATION: Archaeologist  
DISCIPLINE: Cultural  
SPECIALTIES: Archaeology, coastal, ethnohistory, excavations, resource mapping, Spills: monitoring, archaeology  
SPILL EXPERIENCE: None  
REGIONAL EXPERIENCE: Eastern Arctic  
EMPLOYER: Private  
RECORD NO.: 1564

250. SWISS, JAMES J.  
Canadian Petroleum Association  
3800 - 150 6th Avenue S.W.  
Calgary, AB  T2P 3Y7  
wk 403/269-6721  
fax 403/261-4622  
hm 403/252-8668  

OCCUPATION: Environmental Co-ordinator  
DISCIPLINE: Countermeasures  
SPILL EXPERIENCE: KURDISTAN, CN Port Aux Basques, BERGLAND, Beaufort Sea Dispersant Trials  
REGIONAL EXPERIENCE: Beaufort Sea, Newfoundland & Labrador, Maritime  
EMPLOYER: Private  
RECORD NO.: 1142

251. TABATA, SUS  
Institute of Ocean Sciences  
Dept. of Fisheries and Oceans  
P.O. Box 6000  
Sidney, BC  V8L 4B2  
wk 604/363-6573  
fax 604/363-6746  

OCCUPATION: Physical Oceanographer  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Spills: modelling  
SPILL EXPERIENCE: NESTUCCA  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 561

252. TAYLOR, ROBERT B.  
Geological Survey of Canada  
P.O. Box 1006  
Halifax, NS  B3Y 4A2  
wk 902/426-7736  
fax 902/426-4104  
hm 902/469-4370  

OCCUPATION: Coastal Geomorphologist  
DISCIPLINE: Physical/Chemical  
SPECIALTIES: Coastal: geomorphology, mapping, OIL: sensitivity mapping, processes, Countermeasures: shoreline cleanup  
SPILL EXPERIENCE: KURDISTAN, ARROW  
REGIONAL EXPERIENCE: Maritimes  
EMPLOYER: Federal  
RECORD NO.: 1143

253. TEAL, ANDREW R.  
Imperial Oil/EXxon  
3301 "C" Street  
Anchorage, AK  99503  
U.S.A.  
wk 907/564-3664  
fax 907/564-3771  
hm 907/345-5173  

OCCUPATION: Environmental Adviser/Emergency Response  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: equipment general, monitoring, operations, Spills: environmental coordinator, impact assessment, management/planning  
SPILL EXPERIENCE: Minuk Is, EXxon VALDEZ  
REGIONAL EXPERIENCE: Pacific, Beaufort Sea  
EMPLOYER: Private  
RECORD NO.: 1144

254. TESDESCHI, ED  
Slicker Products Corp.  
18 Beach Street  
Seymour, CT  06359  
USA  
wk 203/888-7700  
fax 203/888-7720  
hm 203/888-1000  

OCCUPATION: Spill Response Equip. Designer  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: booms, equipment design, storage, pumps, skimmers, vessels  
SPILL EXPERIENCE: Chronic Spills - BC  
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritime, Great Lakes & St. Lawrence River  
EMPLOYER: Private  
RECORD NO.: 1374

255. THAROUS, EDWARD  
Energetex Engineering  
P. O. Box 744  
Waterloo, ON  N2H 4C2  
wk 519/886-2672  
fax 519/885-2738  

OCCUPATION: Engineer  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: burning, disposal  
SPILL EXPERIENCE: BIOS  
REGIONAL EXPERIENCE: Beaufort Sea  
EMPLOYER: Private  
RECORD NO.: 1665

256. THEISS, DIETER E.  
Environment Canada  
Conservation & Protection  
224 West Esplanade  
North Vancouver, BC  V7M 3H7  
wk 604/666-6948  
fax 604/666-1140  
hm 604/984-4253  

OCCUPATION: Environmental Project Engineer  
DISCIPLINE: Countermeasures  
SPECIALTIES: Countermeasures: booms, equipment general, monitoring, shoreline cleanup, Spills: management/planning, Water quality: monitoring  
SPILL EXPERIENCE: Chronic Spills - Vancouver Harbour  
REGIONAL EXPERIENCE: Pacific  
EMPLOYER: Federal  
RECORD NO.: 15
257. THOMAS, GRAHAM
Newfoundland Department of Environment and Lands
Sir Richard Squires Building
Corner Brook, NF A2H 6H8

OCCUPATION: Environmental Specialist
DISCIPLINE: Biological
SPECIALTIES: Countermeasures: equipment general, shoreline cleanup, Hydrocarbon chemistry: sampling, Spills: environmental coordinator, on-scene commander
SPILL EXPERIENCE: Chronic Spills - Newfoundland
REGIONAL EXPERIENCE: Newfoundland & Labrador
EMPLOYER: Provincial
RECORD NO.: 1050

258. THOMSON, CALLUM J.
Jacques, Whitford & Associates Ltd.
3 Spectacle Lake Drive
Dartmouth, NS B3B 1W8

OCCUPATION: Archaeologist
DISCIPLINE: Cultural
SPECIALTIES: Archaeology: coastal, ethnography, excavations, resource mapping, Hydrocarbon chemistry: sampling, Spills: monitoring: archaeology
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Eastern Arctic, Newfoundland & Labrador, Maritimes
EMPLOYER: Private
RECORD NO.: 1563

259. THOMSON, RICK
Institute of Ocean Sciences
Dept. of Fisheries and Oceans
P.O. Box 6000
Sidney, BC V8L 4B2

OCCUPATION: Physical Oceanographer
DISCIPLINE: Physical/Chemical
SPECIALTIES: Oceanography: physical, Remote Sensing: satellite
SPILL EXPERIENCE: NESTUCCA
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Federal
RECORD NO.: 310

260. THORNTON, DAVE E.
Environmental Protection Service
Environment Canada
3439 River Road
Ottawa, ON K1A 0H3

OCCUPATION: Research Manager
DISCIPLINE: Physical/Chemical
SPECIALTIES: Spills: management/planning
SPILL EXPERIENCE: KURDISTAN, BIOS
REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes
EMPLOYER: Federal
RECORD NO.: 1317

261. TIDMARSH, GORDON
Eastern Environmental Services Inc.
P.O. Box 626
Chester, NS BOJ 1J0

OCCUPATION: Biologist
DISCIPLINE: Biological
SPECIALTIES: Fish: contamination, Oceanography: biological, Spills: environmental coordinator, fate and effects monitoring, impact assessment, management/planning
SPILL EXPERIENCE: Uniake G72 Blowout
REGIONAL EXPERIENCE: Eastern Arctic, Maritimes
EMPLOYER: Private
RECORD NO.: 1107

262. TILDEN, DAVID C.
Environmental Protection Service
Environment Canada
P.O. Box 370
Yellowknife, NT X1A 2N3

OCCUPATION: Hazardous Materials Specialist
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: burning, disposal, shoreline cleanup, Spills: environmental coordinator, impact assessment, management/planning
SPILL EXPERIENCE: EDGAR JOURDAIN, Minik Is., LE CHENE NO. 1, Chronic Spills - Tuktoyaktuk
REGIONAL EXPERIENCE: Beaufort Sea, Eastern Arctic
EMPLOYER: Federal
RECORD NO.: 1230

263. TREMBLAY, ANDRE
Emergency Preparedness Canada
701 - 250 West Grande Allee
Quebec, PQ G1R 2H4

OCCUPATION: Regional Director, Quebec
DISCIPLINE: Other
SPECIALTIES: Spills: logistics, management/planning, on-scene commander, public relations
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal
RECORD NO.: 1231

264. TRUDEL, KENNETH B.
S.L. Ross Environmental Research Inc.
Suite 200-717 Belfast Road
Ottawa, ON K1G 0Z4

OCCUPATION: Environmental Impact/Risk Assessment
DISCIPLINE: Biological
SPECIALTIES: Biological sensitivity mapping, Oil: dispersants, toxicity, Spills: impact assessment, management/planning, modelling
SPILL EXPERIENCE: EXXON VALDEZ
REGIONAL EXPERIENCE: Beaufort Sea, Pacific, Eastern Arctic, Newfoundland & Labrador, Maritimes
EMPLOYER: Private
RECORD NO.: 1350
| Name                  | Phone          | Fax     | Home     | Email                              | Occupation                                           | Discipline            | Specialties                              | Spill Experience                  | Regional Experience         | Employer                  | Record No. |
|----------------------|----------------|---------|----------|---------|-------------------------------------|-----------------------------------------------------|------------------------|------------------------------------------|-----------------------------------|-----------------------------|---------------------------|------------|
| Tuck, Ed             | wk 709/576-1380 | fax 709/576-6532 | hm 709/753-4004 |                      | Oil Spill Response                 | Countermeasures        | Countermeasures: booms, pumps, shoreline cleanup, skimmers, Oil: dispersants, Spills: communications | ARROW, CN Port Aux Basques, EXXON VALDEZ, Chronic Spills - Newfoundland | Newfoundland & Labrador, Maritimes | Private            | 1047        |
| Turnbull, Chris J.   | wk 506/453-2792 | fax 506/457-4880 | hm 506/363-3588 |                      | Archaeologist                     | Cultural               | Archaeology: coastal, ethnohistory, excavations, resource mapping, underwater sites, water-logged sites | None                              | Maritimes                    | Provincial                | 1589        |
| Vanderkooy, Nick     | wk 403/298-3514 | fax 403/298-2882 | hm 403/239-5145 |                      | Environmental Support             | Countermeasures        | Countermeasures: burning, experimentation, operations, Spills: environmental coordinator, ice-oil interaction, management/planning | NEPCCO 140, Ekoisk Bravo Blowout, Chronic Spills - Great Lakes & St. Lawrence | Beaufort Sea, Great Lakes & St. Lawrence River | Private             | 1146        |
273. WARBSKINSKI, GREG
   wk 709/576-1380
   fax 709/576-6532
   East Coast Spill Response Inc.
   Harvey Industrial Estates
   P.O. Box 9591, Stn. B
   St. John's, NF A1C 4J6
   OCCUPATION: Manager
   DISCIPLINE: Countermeasures
   SPECIALTIES: Countermeasures: booms, equipment general, skimmers, Spills:
   logistics, management/planning, on-scene commander
   SPILL EXPERIENCE: BONAVISTA BAY
   REGIONAL EXPERIENCE: Eastern Arctic, Newfoundland & Labrador
   EMPLOYER: Private
   RECORD NO.: 1048

274. WARD, JOHN G.
   wk 403/233-1120
   fax 403/233-1118
   AMOCO CANADA
   P.O. Box 200
   Station M
   Calgary, AB T2P 2H8
   OCCUPATION: Environmental Specialist
   DISCIPLINE: Biological
   SPECIALTIES: Environmental: impact, Spills: environmental coordinator, fate
   and effects monitoring, impact assessment, management/planning
   SPILL EXPERIENCE: None
   REGIONAL EXPERIENCE: Beaufort Sea
   EMPLOYER: Private
   RECORD NO.: 1536

275. WARNER, PATRICK
   wk 613/990-3378
   fax 613/995-4700
   Environmental Response and Emergency
   Canadian Coast Guard
   941-344 Slater Street (AMGA)
   Ottawa, ON K1A ON7
   OCCUPATION: Manager, Hazmat Spill Response
   DISCIPLINE: Countermeasures
   SPECIALTIES: Occupational health and safety, Spills: communications, logistics, management/planning, on-scene commander, public relations
   SPILL EXPERIENCE: Chronic Spills - Great Lakes & St. Lawrence
   REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
   EMPLOYER: Federal
   RECORD NO.: 1637

276. WATSON, J.
   wk 604/743-7404
   hm 604/753-7404
   Archipelago Marine Research
   P.O. Box 216, Station A
   Nanaimo, BC V9R 5K9
   OCCUPATION: Marine Ecologist
   DISCIPLINE: Biological
   SPECIALTIES: Algae: Subtidal, Benhtos; ecology, invertebrates, Marine mammals: sea otters, Plants: intertidal, subtidal
   SPILL EXPERIENCE: NESTUCCA, BIOS
   REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic
   EMPLOYER: Private
   RECORD NO.: 116

277. WATSON, TOM A.
   wk 604/279-2093
   fax 604/279-2047
   Triton Environmental Consultants Ltd
   120 - 15311 Commerce Parkway
   Richmond, BC V6Y 2L1
   OCCUPATION: Fisheries Biologist
   DISCIPLINE: Biological
   SPECIALTIES: Bioassay testing, Ecology: population dynamics, Fish:
   commercial; pelagic fisheries, ecology, oil effects on, Toxicology
   SPILL EXPERIENCE: EXXON VALDEZ
   REGIONAL EXPERIENCE: Pacific
   EMPLOYER: Private
   RECORD NO.: 552

278. WELLS, G.E.
   wk 604/674-9000
   fax 604/674-9004
   Atmospheric Environment Service
   Environment Canada
   200 - 1200 W. 73rd Avenue
   Vancouver, BC V6P 6H9
   OCCUPATION: Meteorologist
   DISCIPLINE: Other
   SPECIALTIES: Meteorology: forecasting, modelling, Spills: modelling
   SPILL EXPERIENCE: NESTUCCA, EXXON VALDEZ
   REGIONAL EXPERIENCE: Pacific, Beaufort Sea
   EMPLOYER: Federal
   RECORD NO.: 52

279. WELLS, PETER G.
   wk 902/426-9632
   fax 902/426-2690
   Environment Canada, Conservation & Protection, Environmental Health
   15th Floor, Queen Square
   45 Alderney Drive
   Dartmouth, NS B2Y 2N6
   OCCUPATION: Marine Scientist
   DISCIPLINE: Biological
   SPECIALTIES: Invertebrates, Oil: dispersants, toxicity, Plankton, Shellfish:
   crustaceans, Toxicology
   SPILL EXPERIENCE: ARROW, AMOCO CADIZ, NESTUCCA
   REGIONAL EXPERIENCE: Maritimes
   EMPLOYER: Federal
   RECORD NO.: 1337

280. WEST, RICK C.
   wk 604/385-6521
   fax 604/388-7510
   Society for the Prevention of Cruelty to Animals
   3150 Napier Lane
   Victoria, BC V8T 4V5
   OCCUPATION: Animal Control - Rehabilitation
   DISCIPLINE: Biological
   SPECIALTIES: Birds: rehabilitation
   SPILL EXPERIENCE: ARCO ANCHORAGE, NESTUCCA, BAPCO, Chronic
   Spills - Vancouver Island
   REGIONAL EXPERIENCE: Pacific
   EMPLOYER: Private
   RECORD NO.: 160
281. WHITE, ERIC

3093 Heddle Road
R.R. 1
Nelson, BC V1L 5P4

OCCUPATION: Habitat Biologist (Foreshore)
DISCIPLINE: Biological
SPILL EXPERIENCE: Exxon Valdez
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador
EMPLOYER: Private
RECORD NO.: 544

wk 604/825-4392
fax 604/825-4392
hm 604/825-4392

285. WOTHERSPoon, PAUL

Paul Wotherpoon & Associates
1000-521 Third Avenue S.W.
Calgary, AB T2P 3T3

OCCUPATION: Environmental Consultant
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: burning, disposal, experimentation, Environmental: impact
SPILL EXPERIENCE: Mckinley Bay Experimental Spill
REGIONAL EXPERIENCE: Beaufort Sea
EMPLOYER: Private
RECORD NO.: 1621
wk 403/269-4351
fax 403/233-0398
hm 403/247-1538

282. WHITEHORNE, RON E.

Canadian Coast Guard
20th Floor
1 Yonge Street
Toronto, ON M5E 1E5

OCCUPATION: Oil Spill Cleanup
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, equipment general, operations, shoreline cleanup
SPILL EXPERIENCE: Modeland, Bedorad, Cornwall
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
EMPLOYER: Federal
RECORD NO.: 1234
wk 416/973-3058
fax 416/973-2282

286. WYKES, COLIN

Environment Canada
224 West Esplanade
North Vancouver, BC V7M 3H7

OCCUPATION: Manager
DISCIPLINE: Biological
SPECIALTIES: Environmental: impact, Spills: environmental coordinator, assessment, management/planning
SPILL EXPERIENCE: Nestucca
REGIONAL EXPERIENCE: Pacific, Beaufort Sea
EMPLOYER: Federal
RECORD NO.: 1514
wk 604/666-0064
fax 604/666-7463
hm 604/984-8836

283. WHITTAKER, HARRY

Environment Canada
River Road Environmental Tech. Cte.
3439 River Road
Ottawa, ON K1A 0H3

OCCUPATION: Chemical Engineer
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: booms, burning, disposal, equipment design, experimentation, skimmers
SPILL EXPERIENCE: Nestucca, Coaatf Experimental Spills
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador, Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal
RECORD NO.: 1235
wk 613/991-1842
fax 613/991-1873
hm 613/692-3712

287. WYPRUK, TANNY S.T.

Environmental Protection Service
Environment Canada
1179 Bleury Street
Montreal, PQ H3B 3J9

OCCUPATION: Inspection/Chemist
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: monitoring, operations, shoreline cleanup, Hydrocarbon chemistry: sampling, Spills: environmental coordinator, management/planning
SPILL EXPERIENCE: Rio Orinoco, Pointe - Levi
REGIONAL EXPERIENCE: Maritimes, Great Lakes & St. Lawrence River
EMPLOYER: Federal
RECORD NO.: 1659
wk 514/283-2333
fax 514/283-4423
hm 514/388-1753

284. WIEBE, WAYNE

Chevron Canada Resources
Box 2844
150 6th Avenue S.W.
Calgary, AB T2P 3T3

OCCUPATION: Senior Environmental Advisor
DISCIPLINE: Countermeasures
SPECIALTIES: Bioremediation, Countermeasures: booms, shoreline cleanup, Environmental: impact, Spills: management/planning, on-scene commander
SPILL EXPERIENCE: Chronic Spills - Alberta Inland Waters
REGIONAL EXPERIENCE: Pacific
EMPLOYER: Private
RECORD NO.: 1331
wk 403/296-3533
fax 403/296-3030
hm 403/938-2916

288. YOUNG, ALAN

Chevron Canada Resources
500 - 5th Avenue S.W.
Calgary, AB T2P 0L7

OCCUPATION: Sr Environmental Technician
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: equipment general, shoreline cleanup, Spills: management/planning, on-scene commander
SPILL EXPERIENCE: Chronic Spills - Alberta Inland Waters
REGIONAL EXPERIENCE: Pacific, Beaufort Sea, Eastern Arctic, Newfoundland & Labrador
EMPLOYER: Private
RECORD NO.: 1156
wk 403/234-5183
fax 403/234-6212
hm 403/234-5183

1 June 1991
289. YOUNG, CARL A. wk 519/748-1807
Mentor Dynamics Ltd.
151 Trillium Drive
Kitchener, ON N2E 1WO
fax 519/748-9723
hm 519/746-3351

OCCUPATION: Equipment Manufacturer
DISCIPLINE: Countermeasures
SPECIALTIES: Countermeasures: skimmers, vessels
SPILL EXPERIENCE: None
REGIONAL EXPERIENCE: Great Lakes & St. Lawrence River
EMPLOYER: Private

RECORD NO.: 1664

1 June 1991
APPENDIX B

Discipline Keyword Index
Environmental:

229, 231, 234, 241, 265, 269, 274, 284, 285, 286,
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- habitat .......................... 97, 176, 218, 233, 277
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Ethnohistory (see Archaeology: ethnohistory)

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Finfish (see Fish: anadromous, demersal or pelagic)

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L
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- whales .......................... 14, 63, 89, 114, 120, 135, 178, 183, 206, 242

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Marsh (see Wetlands:)

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- modelling .......................... 15, 79, 270, 278

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Migratory birds (see Birds: migratory)

Migratory marine mammals (see Marine mammals:)

 Mussel (see Shellfish: molluscs)

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Non-commercials fisheries (see Fish:)

O
Ocean chemistry (see Water quality:)

Oceanography:
- chemical (see Water quality:)

Occupational health and safety

Oil:
- analyses (see Hydrocarbon chemistry: analyses) .......................... 7, 20, 23, 26, 32, 56, 86, 93, 134, 140, 146, 190, 192, 195, 216, 230, 238, 250, 264, 266, 279, 286, 94, 146, 183, 215, 216
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P
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Plankton

Plants:
- terrestrial
- inertial
- planktonic
- subtidal

Pollutants (see Water quality: pollutants)
Polyvms (see Ice ecology)
Population dynamics (see Ecology: population dynamics)

R
- Recreational fisheries (see Fish: recreational fisheries)
- Remote Sensing:
  - aircraft
  - instrumentation
  - interpretation
  - satellite
- Resource mapping (see specific resource)
- Resource sensitivity mapping (see specific resource)

S
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- Salmon (see Fish: anadromous)
- Scallops (see Shellfish: molluscs)
- Seabirds (see Birds: seabirds)
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  - cultural (see Archaeology: resource mapping)
- geologic (see Coastal mapping: oilspill sensitivity mapping)
- Shellfish:
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  - crustaceans
  - habitat
  - molluscs
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- Shoreline Cleanup (see Countermeasures: shoreline cleanup)
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- Skimmers (see Countermeasures: equipment, skimmers)

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- communications
- countermeasures (see Countermeasures: disposal)
- environmental coordinator
- fate and effects monitoring
- finger-printing (see Hydrocarbon chemistry: analyses)
- ice-oil interaction
- impact assessment

logistics

management/planning

modelling

monitoring:
- archaeology
- biological
- chemical
- physics
- oil-distribution mapping
- on-scene commander
- public relations
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