

REGIONAL-SCALE DRIFT PROSPECTING SURVEYS

NTS MAP AREA 82L

Paulen, R.C., Bobrowsky, P.T., Lett, R.E., Jackaman, W., Bichler, A.J. and Wingerter, C. (2000): Till geochemistry of the Shuswap Highlands area, B.C. (parts of NTS 82M/3, 82L/13, and 92P/9); *BC Ministry of Energy, Mines, and Petroleum Resources*, Open File 2000-18, 26 pages.

NTS MAP AREA 82M

Bobrowsky, P.T., Leboe, E.R., Dixon-Warren, A. and Ledwon, A. (1997): Eagle Bay Project: till geochemistry of the Adams Plateau (82M/4 and North Barriere Lake (82M/5) map areas, in *Geological Fieldwork 1996*, *BC Ministry of Energy, Mines, and Petroleum Resources*, Paper 1997-1, pages 413-421.

Bobrowsky, P.T., Leboe, E.R., Dixon-Warren, A., Ledwon, A., MacDougall, D. and Sibbick, S.J. (1997): Till geochemistry of the Adams Plateau-North Barriere Lake area (NTS 82M/4 and 5); *BC Ministry of Energy, Mines, and Petroleum Resources*, Open File 1997-09, 27 pages.

Paulen, R.C., Bobrowsky, P.T., Lett, R.E., Jackaman, W., Bichler, A.J. and Wingerter, C. (2000): Till geochemistry of the Shuswap Highlands area, B.C. (parts of NTS 82M/3, 82L/13, and 92P/9); *BC Ministry of Energy, Mines, and Petroleum Resources*, Open File 2000-18, 26 pages.

NTS MAP AREA 92L

Bobrowsky, P.T. and Meldrum, D. (1994): Preliminary drift exploration studies, northern Vancouver Island (92L/6, 92L/11), in *Geological Fieldwork 1993*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1994-1, pages 87-99.

Bobrowsky, P.T. and Sibbick, S.J. (1996): Till geochemistry of northern Vancouver Island area (NTS 92L/5, 6W, 11W, 12), *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 1996-07, 201 pages.

Bobrowsky, P.T., Best, M., Dunn, C.E., Huntley, D.H., Lowe, C., Roberts, M., Seemann, D.A. and Sibbick, S.J. (1995): Integrated drift exploration studies on northern Vancouver Island (92L), in *Geological Fieldwork 1994*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1995-1, pages 23-33.

Huntley, D.H. and Bobrowsky, P.T. (1995): Surficial geology and drift exploration: Mahattah Creek Map Area (92L/5), in *Geological Fieldwork 1994*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1995-1, pages 35-45.

Kerr, D.E., Sibbick, S.J. and Jackaman, W. (1992): Till geochemistry of the Quesnau map area (92L/2); *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 1992-21, 14 pages.

NTS MAP AREA 92O

Plouffe, A. and Ballantyne, S.B. (1994): Regional till geochemistry, Mount Tatlow and Elkin Creek area, British Columbia (92O/5 and O/12); *Geological Survey of Canada*, Open File 2909, 62 pages.

NTS MAP AREA 92P

Bobrowsky, P.T., Paulen, R.C., Little, E., Prebble, A., Ledwon, A. and Lett, R.E. (1998): Till geochemistry of the Louis Creek-Chua Chua Creek area (NTS 92P/1E and 92P/0E); *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 1998-36, data spreadsheet.

Paulen, R.C., Bobrowsky, P.T., Lett, R.E., Jackaman, W., Bichler, A.J. and Wingerter, C. (2000): Till geochemistry of the Chu Chu-Clearwater area, B.C. (parts of NTS 92P/8 and 92P/9); *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 2000-17, 25 pages.

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Plouffe, A., Bednarski, J.M., Huscroft, C.A. and McCuaig, S.J. (2009): Gold grain content of till in the Bonaparte Lake map area, south central British Columbia (NTS 92P), *Geological Survey of Canada*, Open File 6047, 32 pages.

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NTS MAP AREA 93B

Ferbey, T. (2009): Till geochemical exploration targets, Redstone and Loomis Lake map areas (NTS 093B/04 and 05), central British Columbia; *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 2009-9, 52 pages.

NTS MAP AREA 93C

Lett, R.E., Cook, S.J. and Levson, V.M. (2006): Till Geochemistry of the Chilanko Forks, Chezacut, Clusko River and Toi Mountain area, British Columbia (NTS 93C/1, C/8, C/9, C/16); *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 2006-1, 272 pages.

NTS MAP AREA 93F

Levson, V.M., Gies, T.R., Cook, S.J. and Jackaman, W. (1994): Till geochemistry of the Fawnie Creek area (93F/03); *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 1994-18, 40 pages.

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Plouffe, A., Levson, V.M. and Mate, D.J. (2001): Till geochemistry of the Nechako River map area (NTS 93F), central British Columbia; *Geological Survey of Canada*, Open File 4166, 66 pages.

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NTS MAP AREA 93H

Bobrowsky, P.T. and Bichler, A. (2001): Till Geochemistry of the Wells-Stone Lake Area, B.C. (NTS 93H/4N and 93H/5S); *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 2001-10, 32 pages.

NTS MAP AREA 93K

Plouffe, A. (1995): Geochemistry, lithology, mineralogy, and visible gold grain content of till in the Manson River and Fort Fraser map areas, central British Columbia (NTS 93K and N), *Geological Survey of Canada*, Open File 3194, 119 pages.

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NTS MAP AREA 93L

Ferbey, T., Levson, V.M. and Lett, R.E. (2009): Till geochemical exploration targets, Babine porphyry copper belt, central British Columbia; *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 2009-4, *Geoscience BC*, Report 2009-10, 38 pages.

Levson, V.M. (2002): Quaternary geology and till geochemistry of the Babine Porphyry Copper Belt, British Columbia (NTS 93L/6, 16, M/1, 2, 7, 8); *BC Ministry of Energy, Mines and Petroleum Resources*, Bulletin 110, 278 pages.

NTS MAP AREA 93M

Ferbey, T., Levson, V.M. and Lett, R.E. (2009): Till geochemical exploration targets, Babine porphyry copper belt, central British Columbia; *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 2009-4, *Geoscience BC*, Report 2009-10, 38 pages.

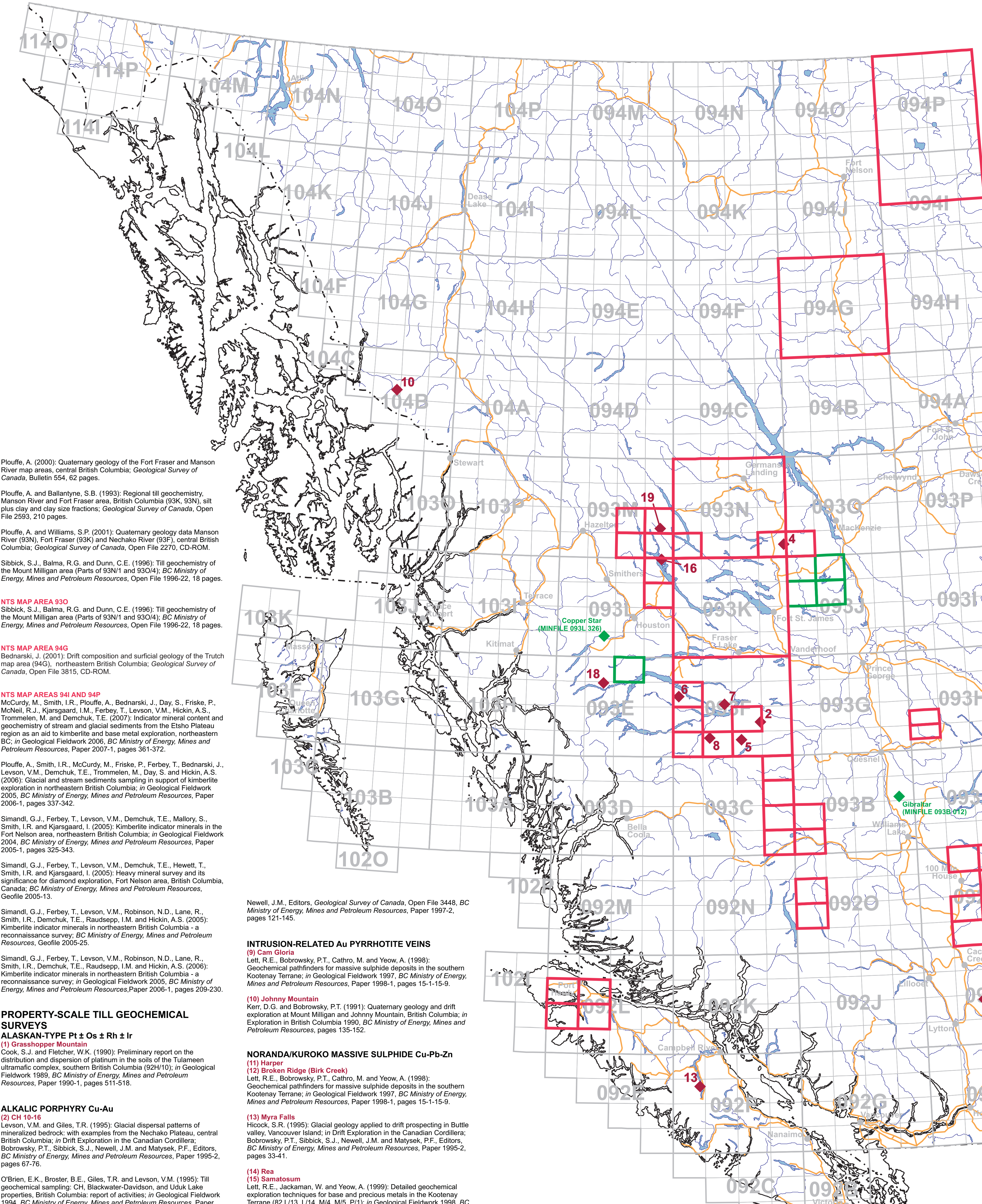
Levson, V.M. (2002): Quaternary geology and till geochemistry of the Babine Porphyry Copper Belt, British Columbia (NTS 93L/6, 16, M/1, 2, 7, 8); *BC Ministry of Energy, Mines and Petroleum Resources*, Bulletin 110, 278 pages.

Levson, V.M., Cook, S.J., Hobday, J., Huntley, D.H., O'Brien, E.K., Stumpf, A.J. and Weary, G. (1997): Till geochemistry of the Old Fort Mountain area, central British Columbia (NTS 93M/1); *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 1997-10a, 55 pages.

Levson, V.M., Cook, S.J., Huntley, D.H., Stumpf, A.J. and Hobday J. (1997): Preliminary till geochemistry-Old Fort Mountain area (NTS 93M/1); *BC Ministry of Energy, Mines and Petroleum Resources*, Open File 1997-18, data spreadsheet.

NTS MAP AREA 93N

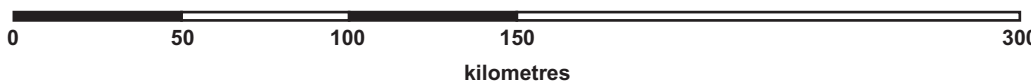
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British Columbia Geological Survey
GeoFile 2010-05

REGIONAL TO PROPERTY-SCALE DRIFT PROSPECTING SURVEYS IN BRITISH COLUMBIA

Compiled by T. Ferbey (PGeo)



DRIFT PROSPECTING DATA

- | | | | |
|--|---|--|---|
| | Published regional-scale drift prospecting data (references are listed by NTS mapsheet) | | Published property-scale till geochemistry data (references are listed by label number) |
| | Regional-scale till geochemistry survey in progress | | Property-scale till geochemistry data in progress |

INTRODUCTION

Presented here is a geographically referenced list of drift prospecting surveys that have been conducted in British Columbia. A list of topical studies and special volumes that are relevant to drift prospecting in British Columbia have also been included. These studies and geochemical data will be of interest to explorationists and researchers who are assessing the effectiveness of drift prospecting surveys in the context of their own exploration or research program, who are preparing to design and implement their own survey, or who have generated geochemical data on drift samples and are looking for data from orientation surveys for context and comparison.

To be included here, drift prospecting reports and (or) geochemical data must be published and publicly available and have used basal till or glacial/alluvial gravels as sample media. These reports and data can be viewed and downloaded from the following websites:

British Columbia Geological Survey
www.empr.gov.bc.ca/Mining/Geoscience/PublicationsCatalogue/Pages/default.aspx

Geological Survey of Canada
ess.nrcan.gc.ca/ess/cg/geoscan_e.php
gdr.nrcan.gc.ca/mirage/index_e.php

Geochemical surveys that used B-horizon soils, lacustrine sediments, or stream sediments as sample media are not included here.

Regional-scale studies listed used geochemical determinations on basal till samples to assess the base and precious metal potential of a particular region. The exception to this work that was conducted in northeast British Columbia that used glaciofluvial

gravels, and to a lesser extent basal till samples, to assess this region's diamond potential. Property-scale surveys were designed to characterise the clastic dispersal of mineralization in basal till from known mineralized bedrock sources. References for property-scale surveys are organized by the mineral deposit type they were conducted over or around. Data from these detailed studies are important as they provide a basis for comparing regional-scale geochemical data to that from known mineralized sources. This comparison is important in assessing which basal till samples in a regional-scale program could be considered elevated and worthy of follow-up work. Till geochemical surveys that are currently in progress are also included here. References for this work will be provided as the surveys are completed.

Also included here is a list of references for studies that may not necessarily have been conducted in British Columbia but that are relevant to drift prospecting surveys regardless of the glaciated region or country they are to be conducted in. These studies have a topical, rather than geographic, focus and can provide invaluable insight into the design, implementation, and interpretation of drift prospecting surveys. References are also presented for the four most recently published volumes on drift prospecting. Papers within these volumes also have a topical focus and can provide important background information on the subtleties of drift prospecting programs, which can vary from one physiographic region to another, using theory and data from case studies. For example, preparation for any drift prospecting program in the Canadian Cordillera would be incomplete without a thorough review of Levson (2001).

This map and list of references is intended to provide a way of quickly identifying drift prospecting studies and data that are either geographically or topically of interest to those working in British Columbia. Any omissions in the reference list or on the map should be brought to the attention of the compiler. This publication will be updated on an annual basis.

ACKNOWLEDGEMENTS

Alain Plouffe (GSC, Ottawa), Jan Bednarski (GSC, Sidney), and Brent Ward (SFU) are thanked for their comments, suggestions, and improvements to this map and list of references. Karilynn DeWolff is thanked for her editorial review.

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PROPERTY-SCALE TILL GEOCHEMICAL SURVEYS

ALASKAN-TYPE Pt ± Os ± Rh ± Ir

(1) Grasshopper Mountain

Cook, S.J. and Fletcher, W.K. (1990): Preliminary report on the distribution and dispersion of platinum in the soils of the Tulameen ultramafic complex, southern British Columbia (92H/10); in *Geological Fieldwork 1989*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1990-1, pages 511-518.

ALKALIC PORPHYRY Cu-Au

(2) CH 10-16
Levson, V.M. and Gies, T.R. (1995): Glacial dispersal patterns of mineralized bedrock: with examples from the Nechako Plateau, central British Columbia, in *Drift Exploration in the Canadian Cordillera*, Bobrowsky, P.T., Sibbick, S.J., Newell, J.M. and Matyssek, P.F., Editors, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1995-2, pages 67-76.

O'Brien, E.K., Broster, B.E., Gies, T.R. and Levson, V.M. (1995): Till geochemical sampling: CH, Blackwater-Davidson, and Uduk Lake properties, British Columbia: report of activities, in *Geological Fieldwork 1994*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1995-1, pages 207-211.

(3) Galaxy
Kerr, D.E., Sibbick, S.J. and Belik, G.D. (1993): Preliminary results of geochemical studies on the Galaxy property, Kamloops, B.C. (92H/8); in *Geological Fieldwork 1992*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1993-1, pages 439-443.

(4) Mount Milligan
Kerr, D.E. and Bobrowsky, P.T. (1991): Quaternary geology and drift exploration at Mount Milligan and Johnny Mountain, British Columbia; in *Exploration in British Columbia 1990*, *BC Ministry of Energy, Mines and Petroleum Resources*, pages 135-152.

(5) Uduk Lake
O'Brien, E.K., Broster, B.E., Gies, T.R. and Levson, V.M. (1995): Till geochemical sampling: CH, Blackwater-Davidson, and Uduk Lake properties, British Columbia: report of activities, in *Geological Fieldwork 1994*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1995-1, pages 207-211.

(6) White Claim Group
Levson, V.M. and Gies, T.R. (1995): Glacial dispersal patterns of mineralized bedrock: with examples from the Nechako Plateau, central British Columbia; in *Drift Exploration in the Canadian Cordillera*, Bobrowsky, P.T., Sibbick, S.J., Newell, J.M. and Matyssek, P.F., Editors, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1995-2, pages 67-76.

(7) Wolf
Levson, V.M. and Gies, T.R. (1997): Quaternary geology and till geochemistry studies in the Nechako and Fraser plateaus, central British Columbia; in *Interior Plateau Geoscience Project: Summary of Geological, Geochemical and Geophysical Studies*, Diakow, L.J. and

Newell, J.M., Editors, *Geological Survey of Canada*, Open File 3448, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1997-2, pages 121-145.

INTRUSION-RELATED Au PYRRHOTITE VEINS

(8) Cam Gloria
Lett, R.E., Bobrowsky, P.T., Cathro, M. and Yeow, A. (1998): Geochemical pathfinders for massive sulphide deposits in the southern Kootenay Terrane, in *Geological Fieldwork 1997*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1998-1, pages 15-115-9.

(9) Johnny Mountain
Kerr, D.G. and Bobrowsky, P.T. (1991): Quaternary geology and drift exploration at Mount Milligan and Johnny Mountain, British Columbia; in *Exploration in British Columbia 1990*, *BC Ministry of Energy, Mines and Petroleum Resources*, pages 135-152.

(10) Noranda/Kuroko Massive Sulphide Cu-Pb-Zn
(11) Harper
Lett, R.E., Bobrowsky, P.T., Cathro, M. and Yeow, A. (1998): Geochemical pathfinders for massive sulphide deposits in the southern Kootenay Terrane, in *Geological Fieldwork 1997*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1998-1, pages 15-115-9.

(12) Broken Ridge (Birk Creek)
Lett, R.E., Bobrowsky, P.T., Cathro, M. and Yeow, A. (1998): Geochemical pathfinders for massive sulphide deposits in the southern Kootenay Terrane, in *Geological Fieldwork 1997*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1998-1, pages 15-115-9.

(13) Myra Falls
Hickox, S.R. (1995): Glacial geology applied to drift prospecting in Butte valley, Vancouver Island; in *Drift Exploration in the Canadian Cordillera*, Bobrowsky, P.T., Sibbick, S.J., Newell, J.M. and Matyssek, P.F., Editors, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1995-2, pages 33-41.

(14) Rea
(15) Satsomus
Lett, R.E., Jackaman, W. and Yeow, A. (1999): Detailed geochemical exploration techniques for base and precious metals in the Kootenay Terrane (82 L/13, L/14, M/4, M/5, P/1); in *Geological Fieldwork 1998*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1999-1, pages 297-306.

(16) Huckleberry
Ferbey, T. and Levson, V.M. (2001): Quaternary geology and till geochemistry of the Huckleberry Mine area; in *Geological Fieldwork 2000*, *BC Ministry of Energy, Mines, and Petroleum Resources*, Paper 2001-1, pages 397-410.

(17) Highland Valley
Bobrowsky, P.T., Kerr, D.E., Sibbick, S.J. and Newman, K. (1993): Drift exploration studies, Valley Copper Pit, Highland Valley Copper Mine, British Columbia (92H/6, 7, 10 and 11); in *Geological Fieldwork 1992*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1993-1, pages 427-437.

(18) Huckleberry
Ferbey, T. and Levson, V.M. (2001): Quaternary geology and till geochemistry of the Huckleberry Mine area; in *Geological Fieldwork 2000*, *BC Ministry of Energy, Mines, and Petroleum Resources*, Paper 2001-1, pages 397-410.

(19) Satsomus
Lett, R.E., Jackaman, W. and Yeow, A. (1999): Detailed geochemical exploration techniques for base and precious metals in the Kootenay Terrane (82 L/13, L/14, M/4, M/5, P/1); in *Geological Fieldwork 1998*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1999-1, pages 297-306.

(20) Huckleberry
Ferbey, T. and Levson, V.M. (2001): Quaternary geology and till geochemistry of the Huckleberry Mine area; in *Geological Fieldwork 2000*, *BC Ministry of Energy, Mines, and Petroleum Resources*, Paper 2001-1, pages 397-410.

(21) Satsomus
Lett, R.E., Jackaman, W. and Yeow, A. (1999): Detailed geochemical exploration techniques for base and precious metals in the Kootenay Terrane (82 L/13, L/14, M/4, M/5, P/1); in *Geological Fieldwork 1998*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1999-1, pages 297-306.

(22) Huckleberry
Ferbey, T. and Levson, V.M. (2001): Quaternary geology and till geochemistry of the Huckleberry Mine area; in *Geological Fieldwork 2000*, *BC Ministry of Energy, Mines, and Petroleum Resources*, Paper 2001-1, pages 397-410.

(23) Satsomus
Lett, R.E., Jackaman, W. and Yeow, A. (1999): Detailed geochemical exploration techniques for base and precious metals in the Kootenay Terrane (82 L/13, L/14, M/4, M/5, P/1); in *Geological Fieldwork 1998*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1999-1, pages 297-306.

(24) Huckleberry
Ferbey, T. and Levson, V.M. (2001): Quaternary geology and till geochemistry of the Huckleberry Mine area; in *Geological Fieldwork 2000*, *BC Ministry of Energy, Mines, and Petroleum Resources*, Paper 2001-1, pages 397-410.

(25) Satsomus
Lett, R.E., Jackaman, W. and Yeow, A. (1999): Detailed geochemical exploration techniques for base and precious metals in the Kootenay Terrane (82 L/13, L/14, M/4, M/5, P/1); in *Geological Fieldwork 1998*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1999-1, pages 297-306.

(26) Huckleberry
Ferbey, T. and Levson, V.M. (2001): Quaternary geology and till geochemistry of the Huckleberry Mine area; in *Geological Fieldwork 2000*, *BC Ministry of Energy, Mines, and Petroleum Resources*, Paper 2001-1, pages 397-410.

the Bell mine property, (93 L/16, M/1) west-central British Columbia; in *Geological Fieldwork 1996*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1997-1, pages 439-456.

(17) Highland Valley
Bobrowsky, P.T., Kerr, D.E., Sibbick, S.J. and Newman, K. (1993): Drift exploration studies, Valley Copper Pit, Highland Valley Copper Mine, British Columbia (92H/6, 7, 10 and 11); in *Geological Fieldwork 1992*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1993-1, pages 427-437.

(18) Huckleberry
Ferbey, T. and Levson, V.M. (2001): Quaternary geology and till geochemistry of the Huckleberry Mine area; in *Geological Fieldwork 2000*, *BC Ministry of Energy, Mines, and Petroleum Resources*, Paper 2001-1, pages 397-410.

(19) Satsomus
Lett, R.E., Jackaman, W. and Yeow, A. (1999): Detailed geochemical exploration techniques for base and precious metals in the Kootenay Terrane (82 L/13, L/14, M/4, M/5, P/1); in *Geological Fieldwork 1998*, *BC Ministry of Energy, Mines and Petroleum Resources*, Paper 1999-1, pages 297-306.

(20) Huckleberry
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(22) Huckleberry
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