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-Nana mi**Schroeter, Tom EM:EX**

**From:** Houle, Jacques EM:EX  
**Sent:** Thursday, July 05, 2001 4:57 PM  
**To:** Hall, Ted EM:EX  
**Cc:** Carriere, Greg EM:EX; Randall, Alf EM:EX; Reid, Bruce EM:EX; Jakobsen, Dorthe EM:EX; Taje, Eddy EM:EX; Wishlow, Wayne EM:EX; Pinsent, Robert EM:EX; Cathro, Mike EM:EX; Lane, Bob EM:EX; Terry, David EM:EX; Wojdak, Paul EM:EX; Schroeter, Tom EM:EX; Smyth, Ron EM:EX; McArthur, Gib EM:EX; Brown, Derek EM:EX; Lefebure, Dave EM:EX; Massey, Nick EM:EX  
**Subject:** Houle Weekly Report for June 30-July 5, 2001

**Prospectors Assistance Program:**

- **Jeffery Bucove P.15 Leech River Area Au Project Update:** Analyses received from select vein grab sample from May 31 yielded low values in all metals and possible indicators, clearly suggesting an alternate source for placer gold found downstream; more prospecting and sampling required by Jeff here, possibly utilizing multi-media with help from GSB.
- **Murray Halliday P.75 Hope Area PGE Project Update:** Field visit scheduled to Hope area occurrences planned July 10-11, primarily to help Murray focus on economic targets, and to get staking when/if he finds something. Concurrent field visits or meetings tentatively planned with both Robert Pinsent and Chris Ash during the same trip.
- **Dan Epp P.17 Bella Coola Area Porphyry/Skarn Cu-Mo-Au Project Update:** Field visit scheduled with Tom Schroeter to Bella Coola area occurrences August 20-22 in conjunction with field visits with both Larry Diakow and Dave Lefebure during the same trip, as well as possible site visits to Nifty and Keen VMS showings (MINFILE 092D 006, -007).
- **Peter Ronning P.102 Narrows Inlet Area VMS Project Update:** Contact finally made with Peter, who is planning a 2 phase approach for his project, with phase 1 in early August and phase 2 in September; a field visit is tentatively planned during the second phase.

**Mineral Exploration Activity:**

- **Strong/Dyke Jordan River DS Gabbroid? Cu-Ni-Au-Ag-Co-Cr (PGE's I wish!) Property Update:** Visit completed to trenched occurrence on July 4 with Nick Massey, who provided insights regarding the regional setting for the spectacular yet enigmatic mineralization; clients are seeking a geological consultant to assist in planning and executing fieldwork, probably consisting of gridding, trenching, mapping and ground geophysics.
- **Commerce Resources Jordan River Sunro Cu-Ni-Au-Ag-PGE Property Update:** Dave Heyman and Len Gal of Commerce Resources acquired from Cominco and are compiling extensive data for the Sunro Mine MINFILE 092C 073, with a visit planned to the site and possibly to the Nanaimo Mines Branch Office on July 6-9; nominal assessment work planned for Sunro Property consisting of rock sampling and geochemistry.
- **Newmex Zaballos Area Privateer Au Property Update:** Analyses received for 12 samples taken on June 12-13 from partially overgrown surface exposures at Golden Gate - MINFILE 092L005, mineralized lime silicate in a creek bed exposure near Hidden Valley - MINFILE 092L007, and new/interesting underground exposures on 1100 Level at Privateer (MINFILE 092L008); Golden Gate selected vein grab yielded 25.8 g/t Au, and vein chip yielded 1.5 g/t Au over 0.3m.; Privateer active drift face on 2-3 vein yielded >100 g/t Au, 3.4% Zn, 46.9 g/t Ag over 0.2m.; much higher base metals at depth (Privateer) than up high (Golden Gate) may suggest low sulphide epithermal zoning; biotitic lime silicate exposures at surface and in the mine both yielded somewhat elevated values in Sr and Ba; return visit planned with Tom Schroeter August 14-15.
- **Baas/Mogg/Burns Cowichan Lake Area Properties Update:** Analyses received for 2 samples taken on June 7 from a small adit and on a quartz-sulphide vein near Gold Dyke - MINFILE 092C150 yielded elevated values in base and precious metals, plus over 2.5% Hg in one chip sample! A single sample taken from a massive pyritic zone in feldspar porphyry near Archer - MINFILE 092C 064 yielded elevated values in Ag, Sr and Hg.
- **Francis Rock Cu-Pb-Zn-Au-Ag/Jasper/Travertine Project, Chemainus Area:** Analyses received for 3 samples from June 6 over quartz-sericite-pyrite schist and quartz-chlorite-stockwork mineralization located immediately northwest of Falconbridge's former Chemainus Joint Venture Project in Sicker Group volcanics/volcaniclastics; results show elevated Zn, Ag and Mn in all samples, with the stockwork also showing elevated Mo, Ni and Co; suggesting a possible Besshi VMS model.

**Ministry Activity:**

**Regional Geologists' Annual Meeting in the Harrison Lake Area October 16-18, 2001:** Tentative plans made to hold the annual R.G. meeting and accompanying field trips in the Harrison Lake Area, pending availability of key GSB personnel.

Schroeter, Tom EM:EX

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**From:** Houle, Jacques EM:EX  
**Sent:** Friday, June 29, 2001 2:14 PM  
**To:** Hall, Ted EM:EX  
**Cc:** Carriere, Greg EM:EX; Randall, Alf EM:EX; Reid, Bruce EM:EX; Jakobsen, Dorthe EM:EX; Taje, Eddy EM:EX; Wishlow, Wayne EM:EX; Cathro, Mike EM:EX; Lane, Bob EM:EX; Terry, David EM:EX; Wojdak, Paul EM:EX; Schroeter, Tom EM:EX; Smyth, Ron EM:EX; Lefebure, Dave EM:EX; Brown, Derek EM:EX; Massey, Nick EM:EX; McArthur, Gib EM:EX; Pinsent, Robert EM:EX  
**Subject:** Houle Weekly Report for June 16-29, 2001

**Prospectors Assistance Program:**

- **Mikkel Schau P.91 Vancouver Island PGE Project Update:** Kringle claim staked to cover the Cu skarn occurrence discovered in 2000 along Highway 19 near Sayward, which yielded 2.17% Cu; additional sampling completed on Flan claim staked in 2000 to cover Epithermal Au occurrence on Schoen Creek, which yielded 61 g/t Au; tentative visit to Flan and Kringle planned August 15.
- **David Haughton P.6 Harrison Lake PGE Project Update:** Work on Jason claims planned July 1-27 may include contract ground geophysical work by Geotronics; tentative visit to Jason planned July 9-12.
- **Murray Halliday P.75 Hope PGE Project Update:** Prospecting ongoing, with Murray spending time on tenured ground and yet reluctant to commit to staking claims of his own; possible pegmatites located; tentative visit to Hope area occurrences planned July 9-12.

**Mineral Exploration Activity:**

- **Paul Demontigny Bamfield Mont 2 Property Update:** Visit completed with Paul and Steve Demontigny on June 22 to Bamfield area including Mont 2 Property, which covers sporadic pyrite-chalcopyrite mineralization in variably altered quartzites of the Paleozoic/Mesozoic Westcoast Complex near Jurassic Intrusions exposed in forestry roadcuts and quarries; Au quartz veins are being targeted, but the region and the property appear highly permissive for porphyry Cu-Mo-Au, and epithermal Au-Ag targets based on field observations and data on MINFILE's 092C 082,-083; 6 selected outcrop grab samples were taken for multi-element analyses; Paul Demontigny was a P.A.P. applicant in 2001, but was not selected for a grant.
- **Chris McInerney Bamfield AXMN Property Update:** Visit completed with Demontigny brothers on June 22 to AXMN Property located 10 km north of Mont 2 Property; narrow, vertical qtz-py-cp vein in Jurassic Bonanza volcanics exposed in a forestry pit was sampled (2 samples) for multi-element analyses.
- **Homegold Powell River Duck Lake Kaolin-Germanium-Gallium Property Update:** Notice of Work submitted for a small drilling program to obtain samples from the Lang Bay developed prospect MINFILE 092F 137; approval pending.
- **Commerce Resources Jordan River Sunro Cu-Ni-Au-Ag-PGE Property Update:** Dave Heyman and Len Gal of Commerce Resources to visit Sunro Mine MINFILE 092C 073 with Mines Branch personnel, and possibly to the Nanaimo Mines Branch Office on July 5-6; nominal assessment work planned for Sunro Property consisting of rock sampling and geochemistry.
- **Strong/Dyke Jordan River DS VMS? Property Update:** Visit planned with Nick Massey to trenched occurrence on July 4; assistance provided to Rick Strong in selecting a contract geologist to help plan and undertake field work at DS.
- **Bill Child Thetis Island Stonemasonry Update:** Visit completed to Bill Child's Thetis Island Stonemasonry Workshop sites and Nanaimo Group sandstone quarry sites on June 27; geology advice provided for teaching video: Stonemasonry 101 in progress; two minor dormant quarry sites visited and sampled (neither in MINFILE), both exploiting probable De Courcy Formation sandstone outcrops; anticline identified in the field confirmed in MapPlace suggests potential extension of good sandstone material south of one of the existing quarry faces; variations in "good" and "bad" sandstone appears determined by quartz content >75%=good and biotite content >15%=bad; Introduction to Stonemasonry video provided by Bill filed in Nanaimo Office library.

Lang Bay

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**Ministry Activity:**

- **Exploration and Mining in B.C. - 2000:** Extra copies of the current publication received from Victoria and Kamloops (thanks!) forwarded to selected clients by Eddy Taje, and to regional staff who had yielded their copies to the Malaysian delegation.
- **Exploration and Mining in B.C. - 2001:** Regional Geologists keen to use Dorthe's draft template and instructions for both Part A and Part B articles; Part B authors to submit abstracts by January 1, 2002 and completed manuscripts by February 1, 2002; style and abbreviations guidelines in digital format yet to be located, but a copy of

- **Strong/Dyke Jordan River Area DS Cu-Zn-Ag-Au Massive Sulphide Project:** Bedrock sample results received from April visit to recently re-exposed but previously unsampled pit; 4 samples yielded up to 5.1% Cu, 8.2g/t Au, 1.6g/t Au, 2136 ppm Ni, 1170 ppm Co, but negligible PGE's from chalcopyrite-quartz stockwork veining and massive chalcopyrite-pyrrhotite-pyrite fragments rafted in the veins; geochemistry and textures indicative of Cyprus-type massive sulphide mineralization with hydrothermal overprinting; results clearly warrant establishment of a new MINFILE occurrence at this site; some further exploration work is planned on this project in 2001.
- **Hamilton Jordan River Area Rocky 10 Quartz Project:** Bedrock sample result received from April visit to this 30m.x10m. quartz-muscovite vein exposure in Leech River Schists, which yielded a surprising 1.6 g/t Au and anomalous Ag, Bi & Te; results forwarded to Kim Bellefontaine for potential acid rock drainage considerations, since Derrick Hamilton is thinking about extracting some of the material for residential crushed stone applications due to its yellow and red colour variations.
- **Rooke/Oshust Port Renfrew Area Rayman Au Quartz Vein Project:** Bedrock sample results received from April visit to several exposures of quartz veining in Leech River Schists, which failed to yield any significant geochemical results.
- **Inspiration Nitinat Lake Area Jasper Cu-Pb-Zn-Ag-Au Massive Sulphide Project:** Planned visit for today, June 1, postponed due to other commitments by management; possibly rescheduled in 2-3 weeks with consultant Arne Birkeland.
- **Child Duke Point Area Sandstone Source for Stonemasonry:** Tentative visit planned with Thetis Island -based stonemason, Bill Child, to Duke Point area sandstone quarry to visit possible source for stonemasonry applications.

**Ministry Activity:**

- **Forum on the Geology of Industrial Minerals:** Attended Forum in Victoria May 23-25; completed highlight summary for Southwest Region and circulated with proceeding document to other Nanaimo Office personnel.
- **Meeting with Regional Geologists and Geological Survey Branch Managers:** Meeting held May 24 in Victoria; minutes edited for circulation to attendees.
- **Acquisition of Digital Camera:** A HP618 digital camera was recently obtained primarily for use by the Regional Geologist, but available for others as well, being the 3rd now used within the Nanaimo Office (others are Nikon and Sony models); if anyone wants reports on its performance, give me a while to figure it out, and I will be able to answer questions.

Jacques Houle, P.Eng.  
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*Houle - June 1/01*

**Schroeter, Tom EM:EX**

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— Nanaimo

**From:** Houle, Jacques EM:EX  
**Sent:** Friday, April 27, 2001 3:13 PM  
**To:** Hall, Ted EM:EX  
**Cc:** Cathro, Mike EM:EX; Lane, Bob EM:EX; Wojdak, Paul EM:EX; Wilton, Paul EM:EX; Schroeter, Tom EM:EX; Pinsent, Robert EM:EX; Smyth, Ron EM:EX; Lefebure, Dave EM:EX; McArthur, Gib EM:EX; Brown, Derek EM:EX; Massey, Nick EM:EX; Carriere, Greg EM:EX; Jakobsen, Dorthe EM:EX; Randall, Alf EM:EX; Reid, Bruce EM:EX; Taje, Eddy EM:EX; Wishlow, Wayne EM:EX  
**Subject:** Houle Weekly Report for April 17-26, 2001  
**Sensitivity:** Confidential

**Prospector Assistance Grant Activity:**

- **2001 Program Status:** Although lower volume of applications were received this year for the entire province. the number for the Southwest Region is slightly up to about 30 from 26 last year; 18 applications have been received in Nanaimo from Victoria so far, with evaluations to begin today; several applicants have visited and/or contacted the Regional Geologist for assistance in preparing their applications, planning their field programs, and/or requesting a reference: Dan Blower, Paul Demontigny, Dan Epp, Jim Hutter, Murray McClaren, Dave McLelland, Dave Pauliuk, Mikkel Schau, and Rick Strong.

**Mineral Exploration Activity:**

Nit Nat

Dragon

DS

- **C.R.C. Explorations Ltd. Lake Cowichan Area Nit Nat Property:** Craig Payne of Crest Geological has submitted a notice of work on behalf of C.R.C. Explorations to complete gridding, soil sampling and about 1000 m. of drilling in 7 diamond drill holes to test co-incident Cu,Pb,Zn,Au geochemical and magnetic/chargeability geophysical anomalies for possible skarn mineralization in Vancouver Group rocks; timing of the project is likely late summer or early fall, pending other commitments.
- **Specogna Gold River Area Dragonfly Property:** Nanaimo prospector Efreem Specogna has submitted a notice of work to complete several short diamond drill holes in late May to test for either Cu-Zn-Au-Ag VMS or Tholeiitic intrusion-hosted Cu-Ni-PGE mineralization or on his Dragonfly property, located west of Gold River on Vancouver Island.
- **Strong/Dyke Jordan River Area DS Property:** Visit completed on April 25 by Regional Geologist along with Garry Payie of the Victoria Office to re-excavated site of old forestry pit, which had previously exposed spectacular quartz-chalcopryrite mineralization; pit partially dewatered exposing 2 styles of mineralization hosted in Metchosin mafic volcanics, consisting of:
  - Quartz-Chalcopryrite-Chalcocite-Bornite stockwork veining averaging about 3% Cu over at least 2 m. width, containing
  - Massive Pyrrhotite-Chalcopryrite (about 50/50 = about 15% Cu) mineralization in a small (0.1m) pod within the stockworkSeveral samples were taken from the site, including a 2 m. chip sample of the stockwork, and selected high grade samples of each of the two styles of mineralization; the clients were advised to expand the pit beneath the adjacent road to further expose the subcropping mineralization in order to establish its orientation and dimensions; a new Minfile occurrence will be documented at this site, pending receipt of analyses and completion of additional staking planned by the stakeholders, Rick Strong and Jim Dyke; The stakeholders are looking for geological consulting expertise at this time.
- **Hamilton Jordan River Area Rocky 10 Property:** Visit completed on April 25 by J.Houle and G.Payie to a massive quartz-muscovite-limonite vein hosted in Cretaceous Leech River Schists; the vein is exposed on a hillside over a 10 by 30 m. area, sometimes with attractive red and/or yellow colouring through the quartz; the stakeholder Derrick Hamilton intends to submit a notice of work application to extract a bulk sample of the quartz vein for test marketing through a acquaintance in Victoria; samples were taken for trace element and whole rock analyses.
- **Rooke/Oshust Port Renfrew Area Rayman et.al. Property:** Visit completed on April 26 by J.Houle to forestry quarries on the clients' mineral claims, where narrow quartz-pyrite-chalcopryrite veins cut Leech River Schists and Tertiary diorite sills (or possible altered metagreywackes); a sample of a mineralized quartz vein, and one from the sill (gwke?) units were taken for trace element analyses; the stakeholders, Norm Rooke of Duncan and Ray Oshust of Port Renfrew are looking for geological consulting expertise at this time.
- **Dimension Stone / Industrial Mineral Projects:**
  - **Stellar Stone Kelly Island Property:** 15,000 tpy granite quarry permit application submitted by Jim Cairns.
  - **Tilbury Cement Texada Island Davies Bay Property:** 10,000 tonne limestone bulk sample notice of work

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**Schroeter, Tom EM:EX**

**From:** Houle, Jacques EM:EX  
**Sent:** Friday, June 23, 2000 8:50 AM  
**To:** Hall, Ted EM:EX  
**Cc:** Cathro, Mike EM:EX; Lane, Bob EM:EX; Wilton, Paul EM:EX; Wojdak, Paul EM:EX; Schroeter, Tom EM:EX; Brown, Derek EM:EX; Lefebure, Dave EM:EX; McArthur, Gib EM:EX; Smyth, Ron EM:EX; Carriere, Greg EM:EX; Reid, Bruce EM:EX; Jakobsen, Dorthe EM:EX  
**Subject:** Houle Weekly Report for June 16-22, 2000

Zeballos

**Compilation of Newmex Minerals Inc. Privateer Mine (092L 008):**

Completed review and compilation of available digital data on the Privateer Mine in the Zeballos District on Vancouver Island; the geochemical signature (elevated values of Ag, Au, As, Cu, Pb, Zn, Cd, Sb, Bi, B, Hg, Se, Te) from quartz vein ore samples taken on May 9, 2000 is suggestive of Porphyry-Skarn-Epithermal mineralization, which is consistent with the geological setting of the Zeballos District; letter sent to A. Aichmeier of Newmex with geochemical results from samples, and some ideas for future exploration as well.

Bingo

**Visit to Robert Campbell's (PAA P.40) Shawnigan Lake Area Project:**

Spent June 20 with R. Campbell and partner G. Henriksen at and around the Bingo Prospect (092B 077), a Au-Ag Quartz Vein showing in graphitic schists along the Survey Mountain Fault near the intersection of the San Juan Fault; they have systematically resampled and traced the vein system over 1 km in logging road cuts; I suggested to continue prospecting along strike towards an area with no Minfile occurrences but with several significant RGS Au anomalies across the San Juan Fault; possible staking is planned for September pending the results from the sampling, and following other commitments for the prospecting partners in Quebec.

Sunro + DS (new)

**Visit to Rick Strong's (PAA P.23) Jordan River Area Project:**

Although unsuccessful in obtaining PAA funding this year, Mr. Strong and partner Jim Dyke will proceed to excavate a former rock quarry along a logging road which allegedly yielded spectacular Cu mineralization (both as massive sulphides in gabbro and in very rich quartz veins) in boulders found along roads near the quarry; they have staked the DS claims (16 units) over the area, and plan to stake additional claims prior to excavating; the day was spent with them visiting outcrop exposures from recent logging activity, as well as tracing the mineralized boulders along the roads; the boulders look similar to but much better than anything seen at the nearby Sunro Mine (092C 073) during my visit in April; I suggested that they submit a Notice of Work Application for not only the quarry excavation, but also for additional trenching nearby to be determined; also requested to be notified upon successful excavation of the quarry for a site visit, which could be very exciting.

**Exploration and Development Activity Poll:**

At the request of Tom Schroeter, I began polling via telephone all known clients in the SW Region to determine what exploration and development activity has been completed so far, and what is planned for the rest of 2000; this exercise should be completed by late June or early July.

Jacques Houle, P.Eng.  
Regional Geologist - Southwest