MINERAL INVESTIGATIONS IN THE KETCHIKAN MINING DISTRICT, ALASKA, 1991: PRINCE OF WALES ISLAND AND VICINITY

By Kenneth M. Maas, Jan C. Still, and Peter E. Bittenbender

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UNIT OF MEASURE ABBREVIATIONS USED IN THIS REPORT

•	degree
lb	pound
Ma	million years before present
MM	million
ppm	parts per million
ppb	parts per billion
ton	short ton
yd^3	cubic yard

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By Kenneth M. Maas[1], Jan C. Still[2], and Peter E. Bittenbender[1]

ABSTRACT

Prince of Wales Island and vicinity comprises the western portion of the Ketchikan Mining District, located in the southern-most portion of Southeast Alaska. Mines within this area have historically produced gold, silver, copper, lead, zinc, platinum group metals, uranium oxide, ornamental marble, and cement-grade limestone.

This report summarizes analytical results from Bureau work completed in 1991, the second year of the Ketchikan Mining District Study. Examination of mineral deposits located on Northern Prince of Wales Island, including the Kasaan Peninsula, was initiated during 1991. Follow-up work in the Craig, Dall Island, and Southeast Prince of Wales Island subareas constituted the remainder of this year's effort. Over 131 mines, prospects, and occurrences were examined and 949 rock, stream sediment, placer, and limestone samples were collected. Metallurgical samples were collected from six properties for beneficiation studies. Results from these studies will be discussed in a future report.

Bureau personnel have identified large deposits of chemical-grade limestone exceeding 97% $CaCO_3$ on Heceta and Kosciusko Islands, and near El Capitan. Sampling of borrow pits near Dora Lake indicates extensive gold-base metal mineralization. Adits on the Crackerjack property, within the Hollis gold area, yielded samples containing high gold-silver values.

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INTRODUCTION

The U.S. Bureau of Mines (Bureau) initiated a study of the Ketchikan Mining District (KMD) in 1990. The main objective of this program is to determine the mineral development potential of mines, prospects, and favorable mineralized zones within the study area. Additional goals are to determine the amount and grade of mineral resources, study beneficiation technologies on mineralized rock from known deposits, evaluate economic feasibility of developing certain deposit types, and examine the socio-economic impacts of mineral development within the District.

The KMD was divided into distinct geographic units *roughly* based on U.S. Forest Service (USFS) management boundaries for study purposes. In 1991 the Bureau continued site-specific evaluations of mines and prospects on Prince of Wales Island and vicinity (fig. 1), which encompasses the Craig and Thorne Bay Ranger Districts. Over 45 mines, prospects, and occurrences were located and mapped, and 380 rock chip, stream sediment, placer, and limestone samples were collected from the Northern Prince of Wales Island subarea (Thorne Bay Ranger District). The balance of Bureau work in 1991 focused on mines and prospects in the Craig, Dall Island, and Southeast Prince of Wales Island subareas (Craig Ranger District). Over 85 prospects were examined and 569 samples of various types were collected in these three subareas. Since the district study began, over 180 mines, prospects, and mineral occurrences have been examined by Bureau personnel. This report summarizes analytical results from 1991 work and supplements the Bureau's OFR 33-91 *(40)*[3], which outlines 1990 work performed in Southern Prince of Wales Island and vicinity.

The maps and tables accompanying this report refer to many prospects summarized in last year's report. To avoid redundancy, general information about access, previous studies, mining history, and geologic setting will be provided only for the Northern Prince of Wales Island (NPOWI) study area. Refer to the 1990 report *(40)* for general information on the Craig, Dall Island, and Southeast Prince of Wales Island subareas.

LOCATION AND ACCESS

The NPOWI subarea occupies the area north of Kasaan Bay, traversing west and north of Big Salt Lake, San Alberto Bay, San Fernando Island, Lulu Island, and Noyes Island. The subarea also includes Heceta and Kosciusko Islands, plus the smaller islands located in Sea Otter Sound and Davidson Inlet (fig. 1).

An extensive logging road system is present on the northern two-thirds of Prince of Wales Island, and smaller networks serve portions of Heceta, Kosciusko, Marble, Tuxekan, and Orr Islands. Four-wheel-drive all terrain vehicles are the preferred mode of transportation on isolated Forest Service roads. The Alaska Marine Highway System (ferry) provides service to Prince of Wales Island, but the other islands require air or boat service to access the road systems. There is scheduled small aircraft service to many of the small communities on NPOWI (Point Baker, Port Protection, Labouchere Bay, Whale Pass, Coffman Cove, Kasaan, and Thorne Bay) as well as to Edna Bay on Kosciusko Island, and Port Alice on Heceta Island. Helicopter support is a practical means of accessing high elevation prospects throughout the area. Small boats can be used to access shoreline outcrops and prospects. Large boats

[3]Italicized numbers in parentheses refer to list of references preceding the appendices.

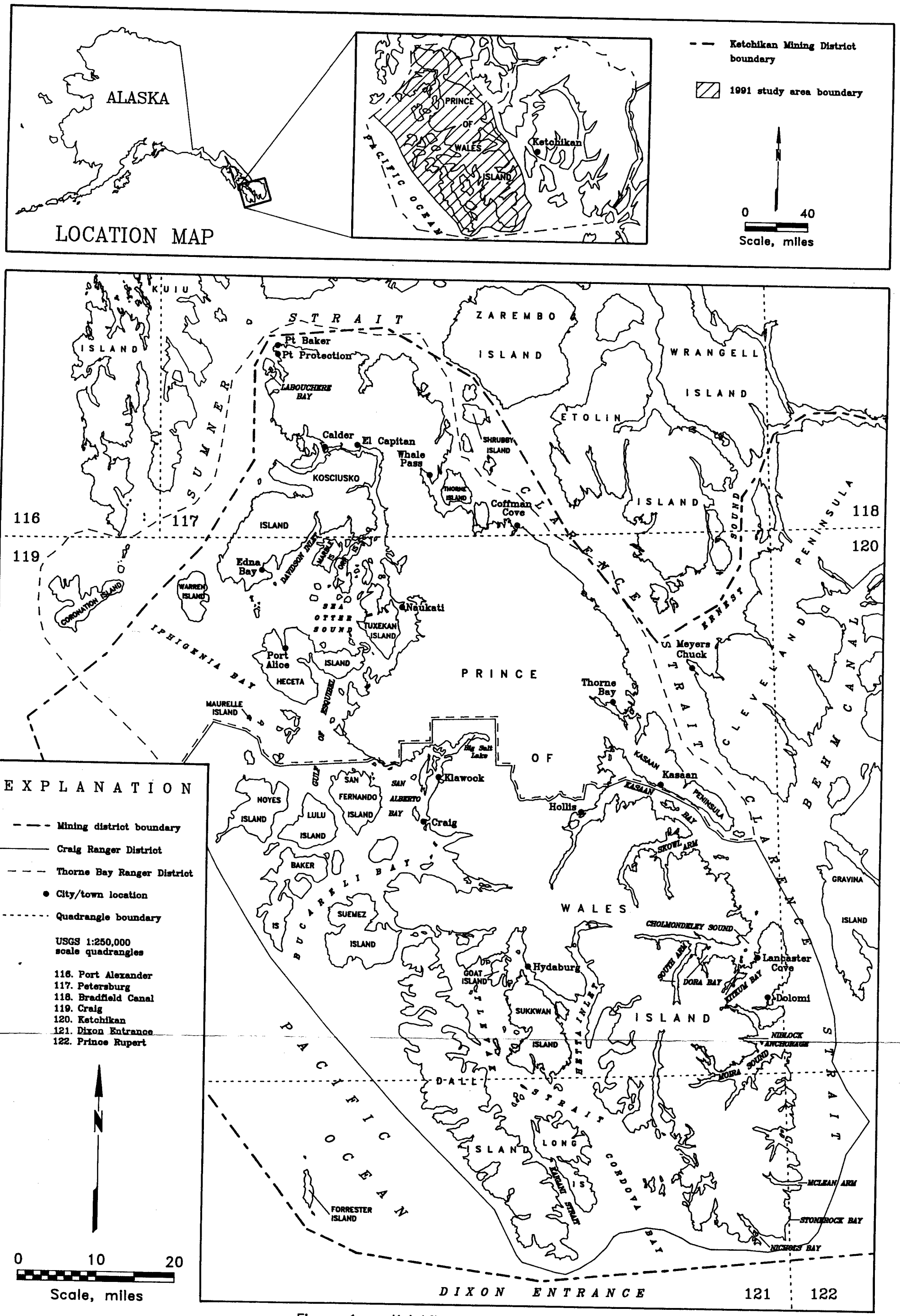


Figure 1. – Ketchikan Mining District: 1991 study area showing Prince of Wales Island and vicinity.

are desirable for inter-island transportation as severe weather can develop at any time.

Thorne Bay is the largest population center in the NPOWI subarea with nearly 600 residents, but does not offer an extensive selection of supplies and services. Kasaan is a Native village corporation with several business interests. The other small communities located on NPOWI rely on logging and fishing.

LAND STATUS

Land ownership in Southern Prince of Wales Island and vicinity was discussed in a previous report *(40)*. Land ownership for the NPOWI subarea is split among the USFS, Native regional (Sealaska Corporation) and village corporations, State of Alaska, and private individuals (fig. 2).

The USFS manages the majority of the acreage in the subarea. Most Federal land is open for mineral exploration and development except for wilderness areas at Warren Island and the Maurelle Islands, withdrawals near Staney Creek, and minor exclusions scattered throughout the area.

State land holdings are located at Whale Pass, Point Baker, Edna Bay, and Thorne Bay. Most of this conveyed land is closed to mineral entry. There are other State-selected parcels in the study area which are closed to Federal claim staking, but open to State claim staking. Annual labor can not be performed on these State claims until patent (tentative approval) is issued by the Bureau of Land Management (BLM).

Native corporation land is situated near Kasaan and in the Calder area. Sealaska Corporation owns the mineral estate on these lands and is actively exploring and promoting the mineral potential therein. They welcome proposals from private industry for lease arrangements on their land.

Detailed land status information should be obtained before commencing a minerals exploration program. Master title plats are available from BLM offices in Anchorage and Fairbanks, or USFS offices in Ketchikan and Juneau.

Numerous unpatented and patented mining claims occur within the study area. Locations can be obtained from State Recorder's Office data and mineral survey plats available from the BLM or USFS. A list of current patented mining claim owners is available from the Bureau of Mines.

ACKNOWLEDGMENTS

The authors were ably assisted by Lars Borg, Mitchell McDonald, Kristen Bentz, and Naomi Moeser, seasonal employees, who aided in locating, mapping, and sampling mines and prospects in the study area. These employees also contributed greatly to post-field season tasks and their help is greatly appreciated.

The authors acknowledge the cooperation of Sealaska Corporation in providing minerals information from their own reconnaissance surveys to aid Bureau work. The Bureau thanks the USFS for both helicopter and fixed-wing support and the use of their extensive communications network throughout Prince of Wales Island. Excellent accommodations and logistical support was provided by Gary McWilliams, skipper of the M/V Hyak. Coastal Helicopters provided reliable air transport during

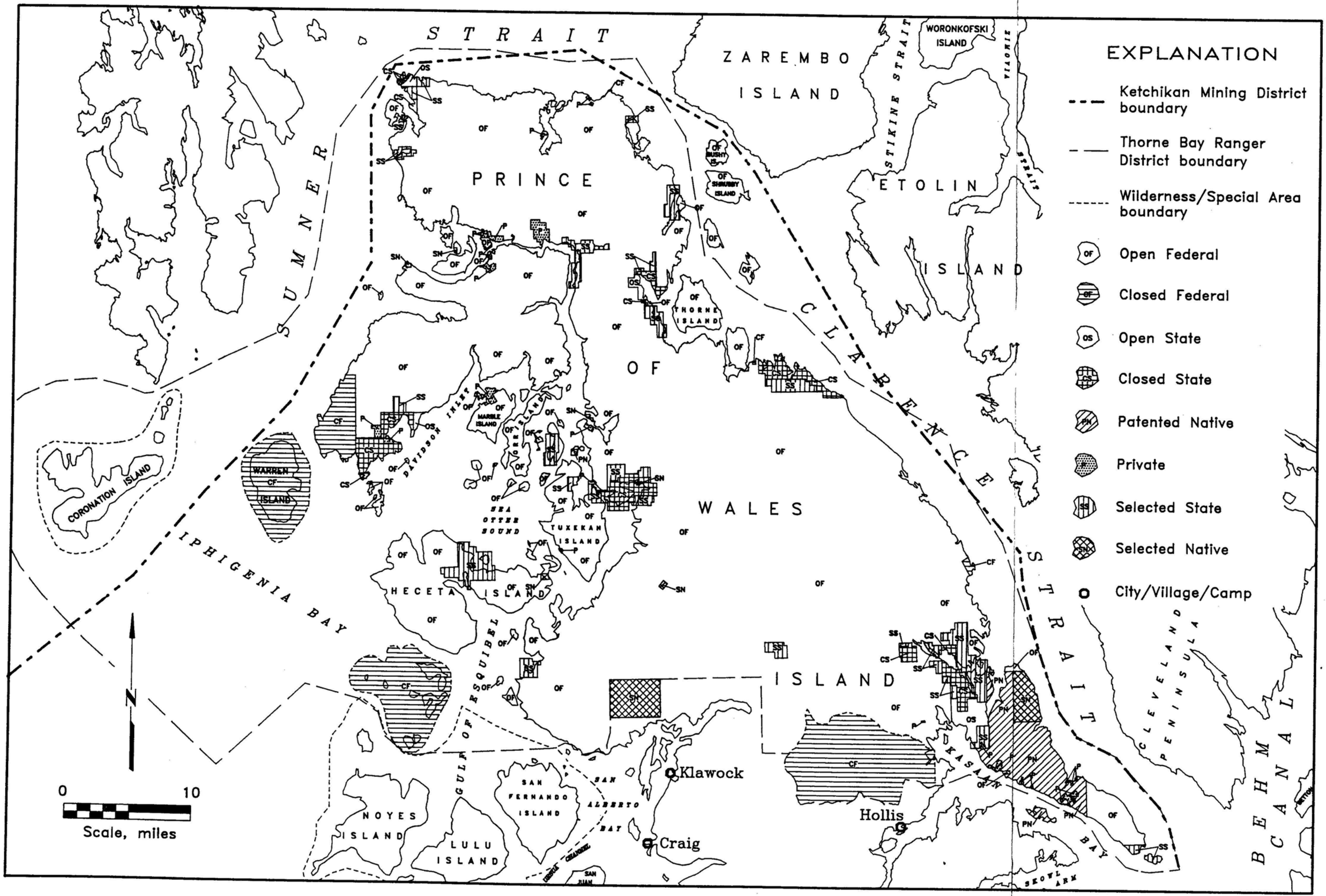


Figure 2. – Generalized land status for Northern Prince of Wales Island and vicinity.

the last half of the season. Louis Thompson, president of Kavilco, Inc., the Native village corporation of Kasaan, provided spacious accommodations for Bureau personnel and shared his knowledge of the mines and prospects on the Kasaan Peninsula. Salisbury and Associates provided support for work based out of the Dolomi area. Jim Fisher, of Klawock-Heenya Corporation, provided road maps of the Klawock area and provided transportation to Bureau personnel on Wadleigh Island. Will and Joyce Jones, owners of the Prince of Wales Lodge, provided the Bureau an excellent headquarters site in Klawock.

Many mining companies and prospectors provided the Bureau access to their mining claims and shared geologic information pertaining to them. Their assistance and cooperation helped make this study more comprehensive. Thanks are extended to Skip Richter, Jim Saunders, Guy Comer, Bennie Purks, Red Dotson, Pacific Northwest Resources Co., Cominco Alaska Exploration, LAC Minerals, Holnam Inc., Orbex Minerals Inc., Noranda, Mount Andrew Mining Co., Trillium Corporation, and Sealaska Corporation.

PREVIOUS STUDIES: NORTHERN PRINCE OF WALES ISLAND

The earliest geologic and mineral resource reports for NPOWI were prepared by the U.S. Geological Survey (USGS). Annual reports on Alaska's Mineral Industry, beginning in 1904, contain information about the mines and prospects throughout the KMD. Brooks, Wright and Wright, Knopf, Chapin, Buddington, Martin, Mertie, and Smith are among the authors responsible for these reports (*7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 38, 39, 41, 42, 56, 66, 67, 68, 70, 71, 72*). A professional report was written by C.W. Wright about the geology and mineral deposits of the Kasaan Peninsula (*69*).

Site-specific reports were published by the USGS for the Shakan Molybdenum deposit (*58*), mines and prospects throughout the Kasaan Peninsula (*60*), and the McCullough Mine (Lake Bay) (*22, 59*). G. Herreid and M.A. Kaufman, geologists for the State of Alaska Division of Geological and Geophysical Surveys (DGGS), published a report on the geology of the Dry Pass Area, Southeastern Alaska (*32*). This report summarizes the general geology in the area, and contains details on several molybdenite occurrences, in addition to the Shakan Molybdenite deposit (Alaska Chief prospect). The Bureau produced War Minerals Reports for the Shakan Molybdenum deposit (*57*), Poorman Iron deposit (*35*), Salt Chuck Mine (*34*), and Rush and Brown Mine (*33*). The Bureau also conducted a drilling program and evaluation of the Mount Andrew Iron deposit (*65*). A. W. Erickson, a Bureau geologist, studied the Tolstoi Mountain iron deposits and published his study in 1948 (*30*). R. R. Wells and others studied beneficiation technologies for various copper-iron ores from Kasaan Peninsula mines (*62*). The Bureau investigated columbium-, rare-earth element-, and thorium-bearing veins near Salmon Bay, Southeastern Alaska (*61*). These veins were initially discovered by a local prospector and subsequent work by the USGS in 1952 (*36*) led to the identification of numerous radioactive veins in the area.

Geologists from the State of Alaska Territorial Department of Mines (TDM) produced several itinerary and site-specific reports during the 1930's and 1940's. These reports describe individual mines and prospects in the NPOWI subarea (*31, 46, 47, 48, 49, 50,* 52). J.C. Roehm described the mineralization at the Iron Cap and Venus groups of claims (*44,* 45). H.G. Wilcox described the workings and geology at the Copper Center prospect (*63*).

Several reports discussing industrial minerals (cement-grade limestone, building stone) in the area were prepared by USGS and Territorial Department of Mines (TDM) workers. Wright published the

earliest inventory of high-calcium limestone sites in Southeast Alaska *(66, 67)* and Burchard continued these inventories in subsequent reports *(19, 20)*. Roehm compiled information on high-calcium limestone deposits throughout Southeast Alaska for the TDM in 1946 *(51)*.

E. H. Cobb prepared mineral resource maps for the Craig and Petersburg quadrangle *(24, 25)* and summarized highlights of individual properties in these quadrangles in two 1978 publications *(27, 26)*. H. C. Berg compiled a comprehensive location map and brief summaries of mineral properties throughout Southeastern Alaska *(2)*. Berg and Cobb summarized metalliferous lode deposits throughout Southeast Alaska in a 1967 report *(3)*. Wolff and Heiner produced a similar summary for the Mineral Industry Research Laboratory in 1971 *(64)*.

The geology of the NPOWI subarea has been described in several reports published by the USGS. The most recent information is contained in: 1) a 1984 report by Brew, Ovenshine, Karl, and Hunt describing the geology of the Petersburg and parts of the Port Alexander and Sumdum quadrangles *(6)*; and 2) a 1983 report by Eberlein and Churkin describing the geology of the Craig Quadrangle *(29)*. Sainsbury compiled a geologic map of part of the Craig C-2 quadrangle and adjoining areas of Prince of Wales Island in 1961 *(55)*. W. H. Condon described the geology and mineral deposits of the Craig quadrangle in 1961 *(28)*. A total intensity aeromagnetic map of Southern Prince of Wales Island (which includes the Kasaan Peninsula area) was produced in 1956 by the USGS *(54)*. An interpretive map of the linear features surrounding the Salt Chuck area, as seen from aerial photographs, was also produced in 1956 *(43)*. A series of reports summarize the mineral resource assessment performed by the USGS in the Petersburg Quadrangle. The assessment process and results are included in USGS Circular 995 *(4)*. A series of maps depicting geochemical and geophysical data has also been published *(1, 5, 37)*.

P. Roppel described the mining history at many of the building stone quarries on Northern Prince of Wales Island in her work titled, "Fortunes from the Earth" *(53)*. This book also discusses the history of the copper mines on the Kasaan Peninsula. Roppel's work elaborates information provided by J. Bufvers in his summary of historical data for mines in the Ketchikan District *(18)*.

Sealaska Corporation, the Native regional corporation for Southeast Alaska, has been conducting extensive geologic investigations on their lands since 1987. Their land holdings are generally concentrated around native villages, but also include scattered fee title parcels. Many proprietary reports have been published and are available from Sealaska Corporation offices in Juneau, Alaska.

The USGS is completing the final stages of their Alaska Mineral Resource Assessment Program (AMRAP) studies of the Craig quadrangle. The AMRAP program provides a systematic methodology to evaluate the geologic and mineral resource potential of Alaska on a quadrangle basis.

MINING HISTORY: NORTHERN PRINCE OF WALES ISLAND

Significant mineral exploration and development activities have occurred in the NPOWI subarea since the Copper Queen claim was staked near the present village of Kasaan by Charles Baranovich in 1867 *(53)*. This claim is acknowledged as the first lode claim staked in Alaska (60). However, considerable time passed before more discoveries were made as copper demand was being satisfied by the vast Lake Superior copper deposits and local prospectors were more interested in pursuing gold in the Juneau area. This situation changed by the end of the 1890's and nearly a dozen noteworthy copper discoveries were made on the Kasaan Peninsula by 1907 *(53)*. During the same time period, marble

deposits at Tokeen, Calder, and El Capitan were explored and developed as dimension stone sources. The following discussion highlights the activity at these properties.

The copper-iron deposits at the Mamie and Mount Andrew Mines were discovered in 1898-99. A smelter was built at Hadley in 1903-04 to treat ore from the Mamie Mine. By 1905, mining developments at both the Mamie and nearby Stevenstown Mine produced ore for the smelter. The Mount Andrew Mine sent ore to the Tacoma Smelter beginning in 1906 *(60)*. Mamie and Mount Andrew continued to produce copper, silver, and gold intermittently until 1918, although the Hadley smelter closed permanently in 1908. Total production from these three mines amounted to 12.8 million pounds copper, 6,939 ounces gold, and 55,933 ounces silver *(60)*. The Mamie Mine produced over 6.2 million pounds of copper (see table 1), which equaled production from the Salt Chuck Mine, also located on the Kasaan Peninsula.

The Salt Chuck Mine was discovered by Silas T. Goodrow in 1906. Salt Chuck was originally a copper mine with economic concentrations of bornite present, one of the few places in Alaska where

Table 1.--Summary of mine production[1]

Mine	Activity Years	Gold (ounces)	Silver (ounces)	Copper (pounds)	Palladium (ounces)
Calder	1901, 04-10, 26	Produced building stone. Value combined with all other Alaskan marble produced[2].			
El Capitan	1904	Shipped 15 tons of marble *(53)*.			
It	1908-12, 14-18	3,595	22,974	4.04MM	
Mamie	1905-08, 15-18	3,447.5	21,193	6.23MM	
McCullough	1905, 06			400	
Mount Andrew	1906-11, 16, 17	1,864.2	22,410	4.35MM	
Orr Island	1912, 1915	Two shipments sent to San Francisco for finishing.			
Rich Hill	1917-18, 28	63.5	424	94,343	
Rush and Brown	1905-08, 10, 1912-23, 29	6,733.4	40,588	4.11MM	
Stevenstown	1906-08	1,627.7	12,330	2.05MM	
Salt Chuck	1916-24, 34-41 1943	11,783	55,583	6.2MM	20,538
Tokeen	1909-26, 32	Value of quarried marble was $797,214 from 1919-25[2].			
Uncle Sam	1907			26,400	

[1]Production figures derived from Bureau and USGS production records.

[2]Total value of Alaska marble produced between 1901-19 was $1,830,000. Production figures for individual quarries are not available.

this occurs. Over ten years later, the ore became more valuable for its content of platinum group metals than for its copper *(53)*. Production of palladium peaked in 1925 at 3,759 ounces and totalled nearly 21,000 ounces over the life of the mine. Copper production amounted to 6.2 million pounds from 326,000 tons of ore, although early shipments of hand-sorted ore contained over four times the grade of copper as these numbers suggest *(34)*. The mine closed in 1943. The Bureau of Mines drilled the deposit in 1948 and concluded that less ore remained than the amount of ore previously mined *(34)*. Several companies have explored the deposit since the Bureau's work and, to date, no advancements have been made.

The Rush and Brown Mine was discovered in 1900 by U. S. Rush and George E. Brown. This mine was a consistent producer of copper ore through 1923 with shipments being sent to smelters at Tyee and Anyox, British Columbia, as well as one shipment to the Coppermount smelter in 1905. The mine operated on a shoe-string budget with a low initial investment and survived economic hardships (price fluctuations) that other operations could not endure *(53)*. However, the inability to secure a long-term smelting contract was cited as a principal cause for the mine's demise *(60)*. Solar Development Co. took an option on the property in 1929, and performed exploration work (sampling and drilling). The Bureau drilled four holes into the deposit in 1943; these did not intersect ore *(34)*.

The It Mine was first developed in 1907 and a shipment of copper ore was sent to the Hadley smelter in 1908. The mine operated until November 1912, when a two-year hiatus in production ensued. The Granby Consolidated Mining, Smelting, and Power Company (Granby) acquired the property in 1914 (as well as the Mamie and Stevenstown Mines) and mining continued until 1918. Production amounted to over 4 million pounds of copper with associated gold and silver. The average ore grade produced throughout the life of the mine amounted to 3.99 percent copper, 0.0685 ounces per ton gold, and 0.478 ounces per ton silver (60).

The Rich Hill and Uncle Sam mines also produced copper ore and are located on the Kasaan Peninsula. The Rich Hill Mine was developed by Granby in 1917-18 *(17)*, and additional production occurred in 1928 *(60)*. Uncle Sam was a small deposit originally located in 1899 by M.T. Fleming *(53)*. The first shipment of 990 sacks of ore was made in 1900 and sent to the Tacoma smelter. Additional ore shipments were made in 1906-07, but the mine did not reopen after the fall of copper prices in late 1907 *(53)*.

The McCullough or Lake Bay Mine is located on east-central Prince of Wales Island, southwest of Coffman Cove. This copper show was located and developed in 1903. Ore was shipped in 1905-06 and it supposedly contained 5 percent copper *(53)*. Minor assessment work was performed intermittently until 1930.

The Haida, Poorman, Iron King, and Tolstoi Mountain prospects were originally located and developed in the early 1900's. These copper-iron shows were explored by adits, trenches, and dip needle surveys. The Bureau trenched, sampled, and drilled the Poorman prospect in 1942-43. The Bureau trenched and sampled the Tolstoi Mountain area (Iron Cap deposits) in 1944. The current claimholder at the Poorman prospect has recently applied for patent (1991) and a USFS mineral's examiner is making a validity determination on this application.

The marble deposits located on Marble Island (Tokeen), at Marble Creek (Calder), El Capitan, Orr Island, and Red Pass were originally discovered between 1897 and 1902. A West Coast building

boom created a demand for ornamental marble prompting this prospecting rush *(53)*. The Calder Quarry began production in 1901, and Calder, Tokeen, and El Capitan produced intermittently from 1904 until 1926 with final production from the Tokeen quarries in 1932. Total reported production value from these quarries amounted to over $2.6 million *(53)*.

GEOLOGIC SETTING: NORTHERN PRINCE OF WALES ISLAND SUBAREA

The geology of the NPOWI subarea has been mapped in reconnaissance fashion on a 1:250,000 scale. Brew, Ovenshine, Karl, and Hunt published a preliminary map of the Petersburg quadrangle which includes that portion of Prince of Wales Island north of a line extending west from Coffman Cove and bisecting Kosciusko Island *(6)*. A geologic description for the remainder of the NPOWI subarea is included in a report by Eberlein and Churkin for the Craig quadrangle *(29)*. A generalized geologic map compiled from this data is shown in figure 3.

The dominant rock types present in the study area are volcanic breccias and conglomerates of Silurian and Ordovician age (including breccia of Luck Creek), Silurian to Ordovician sedimentary and volcanic rocks of the Descon Formation, carbonate rocks of Silurian age and younger, undifferentiated Paleozoic sedimentary rocks including the Staney Creek and Karheen Formations, intermediate to ultramafic plutonic rocks of Paleozoic to Mesozoic age with associated contact metamorphic aureoles, and undifferentiated Quaternary surficial deposits.

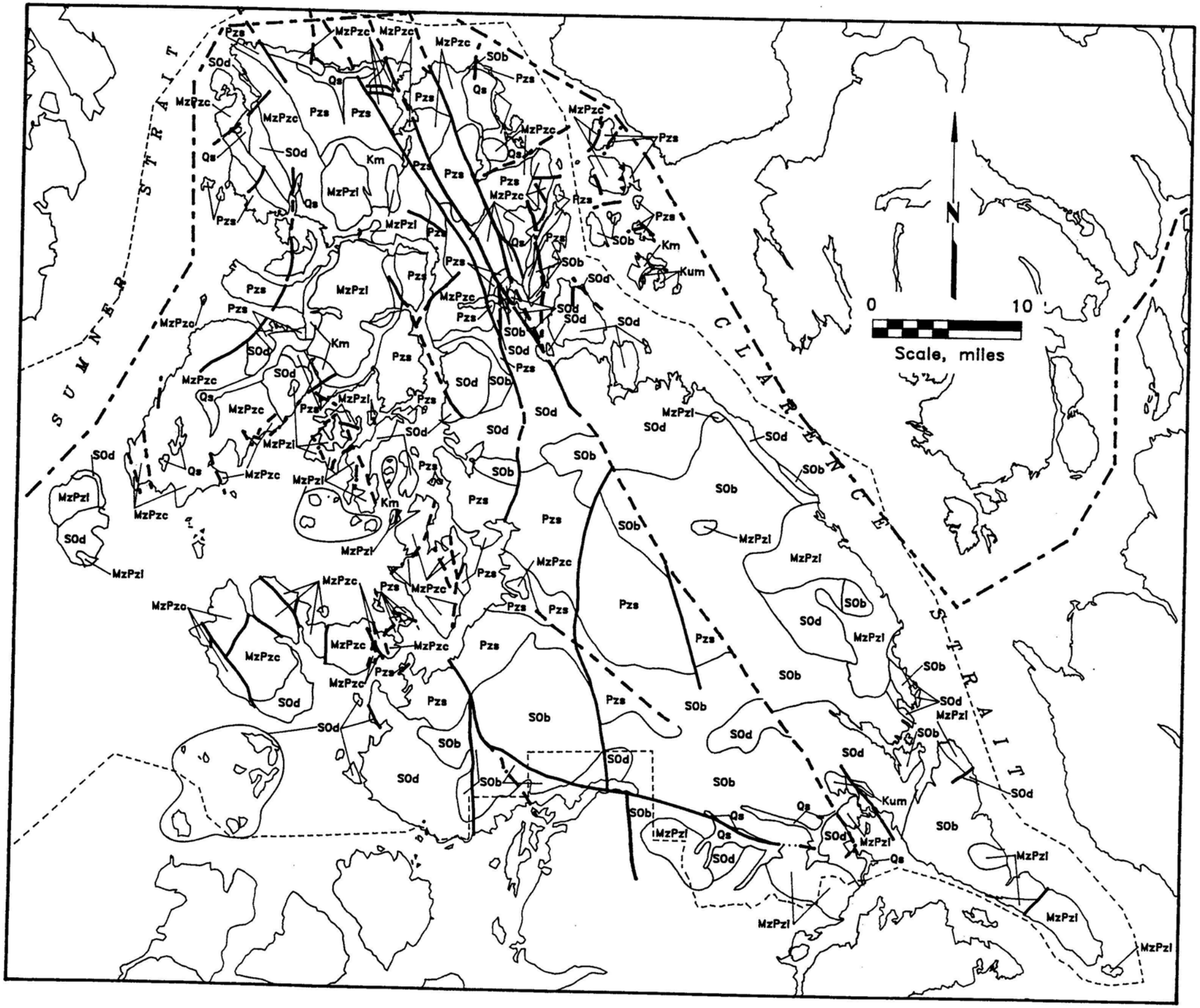
Major structural features in this area include northwest-southeast trending high-angle faults with both strike-slip and normal displacement. Although shearing and faulting is widespread and locally intense, severe penetrative deformation of the rock units was absent. A localized thrust fault was recognized on the eastern portion of Shrubby Island. Greenschist facies metamorphism is evident in the volcanic rocks. Contact aureoles around intrusive contacts are defined by fine-grained, indurated hornfels units, skarn mineralization with minor metallic concentrations, and crystalline marble.

The major copper-iron deposits located on the Kasaan Peninsula are skarn deposits which formed when alkalic dike swarms intruded limestone and calcareous sedimentary rocks. Other copper deposits (e.g. Rich Hill) formed in shear-related environments hosted in greenschist facies volcanic and sedimentary rocks. The Shakan Molybdenite deposit occurs as a quartz-calcite fissure vein hosted in hornblende diorite proximal to calcareous sediments and limestone. The chemical-grade limestone deposits on Heceta and Kosciusko Islands are hosted in the Silurian Heceta Limestone. The ornamental marbles of the Tokeen, Calder, and El Capitan areas were formed during the emplacement of the hornblende diorite (MzPzi, fig. 3) in the northwest portion of the NPOWI study area.

BUREAU INVESTIGATIONS

Fieldwork accomplished during the 1991 season was done in four separate areas as shown on figure 4. These four areas include the NPOWI subarea, Craig subarea, Dall Island subarea, and Southeast Prince of Wales Island subarea. In all, the Bureau investigated over 131 mines, prospects and occurrences and took 949 assorted rock and stream samples. Metallurgical samples were taken from six properties within the study area. The following summaries highlight significant accomplishments made in each subarea during 1991 work.

It should be noted that this is a preliminary report enumerating analytical data. A detailed final



EXPLANATION

Qs	Undifferentiated surficial deposits
Kum	Ultramafic rocks (Cretaceous)
Km	Metamorphic rocks (Cretaceous) mainly contact metamorphic hornfels
MzPzi	Intermediate composition igneous intrusive rocks (Mesozoic and/or Paleozoic)
MzPzc	Carbonate rocks (Mesozoic and Paleozoic) includes Heceta Limestone, Wadleigh Limestone, marble
Pzs	Undifferentiated sedimentary rocks (Paleozoic) includes Staney Creek Formation, Karheen Formation
SOb	Volcanic breccia and conglomerate (Silurian–Ordovician) includes Breccia of Luck Creek
SOd	Descon Formation (Silurian–Ordovician) includes both sedimentary and volcanic rocks

Contact

Fault, dashed where inferred

Thrust fault

Ketchikan Mining District boundary

Thorne Bay Ranger District boundary

Figure 3. – Generalized geologic map for Northern Prince of Wales Island.
References: *6, 29*

report including writeups and maps for all mines, prospects, and occurrences will be published after the 1993 field season.

NORTHERN PRINCE OF WALES SUBAREA

The NPOWI subarea includes over 40 mines, prospects, and mineral occurrences. Mineralization includes the copper-iron deposits of Kasaan Peninsula and Tolstoi Mountain; chemical-grade limestone deposits on Heceta and Kosciusko Islands, and near Dry Pass on Prince of Wales Island; ornamental marble on Marble Island, near Calder and El Capitan; molybdenite prospects near Shakan; uranium-thorium and rare-earth element mineralization near Salmon Bay; gold along El Capitan Passage; and copper at the McCullough Mine.

Bureau geologists spent nearly three months investigating these areas. Over 310 rock-chip and stream samples were taken from these properties. Metallurgical samples were taken from the Mount Andrew and Mamie Mines, and the Poorman prospect. Results from these tests will be published in a future report. Selected high-grade samples of magnetite were analyzed for platinum-group metals and the highest platinum and palladium content was 14 ppb (map no. 100, sample 4602) and 38 ppb (map no. 100, sample 4543) respectively. No samples were taken from the Salt Chuck Mine during this investigation. The USGS published detailed geologic maps and geophysical surveys for individual mines and prospects of the Kasaan Peninsula *(60)* and the Bureau did not attempt to duplicate this work.

Two areas of chemical-grade limestone ($CaCO_3$ > 95 percent) were identified by sampling. The limestone at Edna Bay on Kosciusko Island, and surrounding Port Alice on Heceta Island contains 96-98 percent $CaCO_3$ with minor impurities. Marble surrounding the Calder and El Capitan area is also devoid of substantial impurities. Brightness tests performed on samples from the Calder Quarries (map no. 12, samples LS159 - LS162) are encouraging as values in excess of 94 percent were obtained.

Sampling from the high-grade molybdenite vein at the Alaska Chief prospect yielded values of 3.9 percent molybdenum (map no. 18, sample 4664). Visible gold was encountered at the El Cap Gold prospect and a select sample (map no. 19, sample 4685) analyzed by metallic-sieve procedure contained over 59 ounces per ton gold. Significant copper mineralization was found in quartz-argillite breccia at the McCullough Mine (map no. 24), but gold concentrations did not exceed 120 ppb. Prospecting at many rock pits adjacent to the logging road network on NPOWI did not reveal new areas of mineralization.

The mines, prospects, and occurrences examined in this subarea are generally listed from northwest to southeast in figure 4, section A. Sample location clusters are shown on figure 4 and analytical results are presented in appendix table A-1. Sample clusters shown on figure 4 are cross-referenced as map numbers in the tables.

CRAIG SUBAREA

The Bureau's work in the Craig subarea (subarea B, fig. 4) on Prince of Wales Island was a continuation of work which began in 1990. An effort was made to locate and evaluate some of the less-developed properties and those not fully examined during 1990 (e.g., Cable Creek area, Granite Mountain area, and Cascade). Reconnaissance sampling was also initiated during 1991. Properties were revisited if additional work was required, such as locating additional adits, sampling on tighter spacing, duplicating samples with abnormally high gold analyses (Crackerjack, Puyallup, and Flagstaff) or taking metallurgical

samples.

Forty-four localities were examined in 1991. Approximately 215 rock-chip, stream-sediment, and placer samples were collected for analysis (analytical results are given in appendix table A-2). Metallurgical samples were collected for beneficiation studies from the Lucky Nell, Flagstaff and Khayyam mines. These samples are being examined at the Bureau's research laboratory in Salt Lake City, Utah. Mineral characterization studies of the constituent mineralogy from these locations is being performed by the Bureau's Research Center in Albany, Oregon. Results from these studies will be published at a later date.

Noteworthy accomplishments from 1991 work include investigation of the Crackerjack No. 6 adit which may represent an extension of the vein structure exploited by the lower Crackerjack and Puyallup workings. Samples from the Crackerjack No. 6 adit contained up to 1.801 ounces per ton gold (map no. 141, sample 3539) and 43.69 ounces per ton silver (map no. 141, sample 3783). Representative samples (map no. 122, samples 3554, 3765) across quartz veins (0.5 to 0.6 feet thick) from Lucky Nell Mountain assayed up to 1.455 ounces per ton gold, 74.6 ounces per ton silver, 11 percent lead, and 6.69 percent zinc. Samples from the Cascade gold prospect contain up to 1.299 ounces per ton gold and 1.17 ounces per ton silver (map no. 144, sample 3552). A quartz-vein sample (map no 164, sample 3651) taken from the Khayyam Mine area contained 0.392 ounces per ton gold.

The mines, prospects, and occurrences examined in this subarea are generally listed from northwest to southeast in figure 4, section B. Sample location clusters are shown on figure 4 and analytical results are presented in appendix table A-2. Sample clusters shown on figure 4 are cross-referenced as map numbers in the tables.

DALL ISLAND SUBAREA

Ten days were spent evaluating four prospects and five mineral occurrences on Dall, Long, Sukkwan, and Southern Prince of Wales Island (subarea C, figure 4). Reconnaissance samples were taken at American Bay, along Little Daykoo Creek, at Shipwreck Point, and at Datzkoo Harbor. Site-specific sampling of mineralization at the LI Group on Long Island was also performed. Follow-up work was performed at McLeod Bay, Sukkwan Island, Shellhouse prospect, and the Jumbo Mine. Seventy six samples were taken in this subarea and significant mineralization was found at the LI Group on Long Island, polymetallic quartz veins at McLeod Bay, and at the Jumbo Mine. All other areas sampled revealed low metal values (appendix table A-3).

The LI Group contains silver-copper-lead-zinc mineralization hosted in chloritic phyllite. Quartz veins up to 4 feet wide contain metal values up to 2.79 ounces per ton silver, 9,600 ppm copper, 3.62 percent lead, and 8.41 percent zinc (map no. 188, sample 4444). Samples taken from a high-grade zone identified at McLeod Bay (Elk claims) yielded 2.22 ounces per ton gold and 9.39 ounces per ton silver (map no. 182, sample 4408). Trenching to uncover the northern extension of this vein was unsuccessful. A select sample of molybdenite-chalcopyrite mineralization from the Jumbo Mine yielded over 6.9 percent copper and over 4.6 percent molybdenum (map no. 190, sample 4642).

Marble outcrops sampled in American Bay (map no. 172, sample LS101) contain excessive silica and magnesium and are not valuable as a $CaCO_3$ source.

The mines, prospects, and occurrences examined in this subarea are generally listed from northwest to southeast in figure 4, section C. Sample location clusters are shown on figure 4 and analytical results are presented in appendix table A-3. Sample clusters shown on figure 4 are cross-referenced as map numbers in the tables.

SOUTHEAST PRINCE OF WALES ISLAND SUBAREA

During the 1991 field season, work was conducted by a two-man crew from May 15th to August 13th. The crew was based out of Ketchikan, utilizing float planes and helicopters for access; and out of Dolomi and Lancaster Cove camps where all-terrain vehicles were the primary means of transportation. The M/V Hyak provided support from June 12th to June 30th for work in Nichols Bay, Stone Rock Bay, McLean Arm, Niblack Anchorage, Kitkum Bay, Dora Bay, and South Arm Cholmondeley Sound. Over 40 prospects and mineral occurrences were examined in detail ranging from a few minutes reconnaissance to detailed mapping and sampling lasting many days. At least 360 rock samples and five limestone samples were collected.

Bureau work indicates wide-spread low grade copper-gold mineralization in the McLean Arm-Stone Rock Bay area (fig. 4, Nos. 329-347). Extensive base-metal gold mineralization was identified in the Dora Lake area (fig. 4, Nos. 228-231).

The mines, prospects, occurrences, and reconnaissance sample locations are generally listed north to south (fig. 4, section D). Sample location clusters are shown on figure 4 and corresponding analytical results are listed in appendix table A-4.

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APPENDIX A --ANALYTICAL RESULTS

KEY TO TABLES A-1 to A-4

All assays were conducted by a commercial laboratory. Results are given by chemical element symbol in the following units except when noted by an asterisk(*):

Au, Pt, Pd - ppb;
Ag, Cu, Pb, Zn, Mo, W, Ni, Co, Ba, Sn, Cr, Bi, V, As, Sb, Hg - ppm;
All oxide and Loss on Ignition (LOI) values in percent.

If followed by an asterisk, Au and Ag values are in ounces per ton, and other elements (Cu, Pb, Zn, Mo) are in percent.

ABBREVIATIONS

Abbreviations for sample types are as follows: (see Appendix B for definitions)

	ROCK CHIP		STREAM SAMPLE
C	continuous chip	MM	moss mat
CC	chip channel	PC	pan concentrate
CH	channel	PL	placer
G	grab	SS	stream sediment
RC	random chip		
Rep	representative chip		
S	select		
SC	spaced chip		

Sample dimensions are in feet, designated by an apostrophe.

Abbreviations for sample location types:

FL	float	RC	rubblecrop
MD	mine dump	TP	trench or pit
MT	mill tailings	UW	underground workings
OC	outcrop		

Abbreviations used in the sample descriptions consist of the capitalized first letter of the four cardinal directions, as well as the following:

alt	altered	hw	hanging wall
an	andesite	ls	limestone
ar	argillite	mag	magnetite
az	azurite	med gr	medium-grained
bt	biotite	ml	malachite
br	breccia (brecciated)	mo	molybdenite
calc	calcite	min	mineralized
cg	conglomerate	msv	massive
chl	chlorite (chloritic)	org	organic debris
cp	chalcopyrite	pl	phyllite
di	diorite	po	pyrrhotite
dissem	disseminated	porph	porphyry (porphyritic)
ep	epidote	py	pyrite (pyritic)
fest	iron stained	qt	quartzite
fg	fine-grained	qz	quartz
fw	footwall	sed	sediment
gd	granodiorite	sc	schist
gn	galena	sl	sphalerite
gp	graphite (graphitic)	sulf	sulfide
gs	greenstone	tr	trace
gw	graywacke	vf	very fine
hem	hematite	volc	volcanic
hnbd	hornblende	w/	with
hn	hornfels	xcutting	cross-cutting

Sample data and analytical results are tabulated in appendix A-1 to A-4. In addition to the sample results, the following information is listed in the table: prospect name, map number, field sample number, sample type, sample size, and sample description. The results are organized by property (sample location clusters) and are keyed to figure 4.

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Tb	Ho	Ce	Nd	Pr	Er	Gd	Sample description
Bay Point																				
1	4695	C	4'	2.3	9.4	<1.4	0.69	12.3	136	3.9	<2	4	1.1	-	220	76	-	-	-	OC, carbonate vein in cg
1	4705	C	2'	19.6	30	<2.9	0.63	15.1	113	4	<2	4.9	1.5	-	170	78	-	-	-	OC, mafic dike w/carbonates
2	4706	C	2.3'	2.5	45	<2.5	0.12	71.5	4300	1.1	<2	15	1.3	-	4860	990	-	-	-	OC, ls br, py to 5%
2	4707	C	2'	2.3	7.1	16	0.13	9.3	319	<1	<2	2.1	<1.0	-	400	99	-	-	-	OC, limy br in ar host
3	4696	Rep	5'	22.1	22	1.2	0.69	10	28	4	<2	3.4	1.3	-	61	37	-	-	-	OC, ar w/calc veins
Pitcher Island																				
4	4693	C	2'	26	993	2.7	6.6	50	402	46	11	27	24	-	639	230	-	-	-	OC, carbonate-hem vein
4	4694	Rep	5'	6.8	4	1.1	0.47	10	41	3.3	<2	3.9	1.6	-	78	39	-	-	-	OC, gw, carbonate br
5	4692	Rep	.33' x 5'	15.9	99.5	9.2	4.3	5.3	50.3	26	<2	1.8	1.1	-	88	42	-	-	-	OC, carbonate-hem br
5	4702	Rep		12.2	66.5	16	0.86	5.5	15	5.6	<2	2.4	1.5	-	31	17	-	-	-	OC, gw w/carbonate/hem veins
5	4703	Rep		6.1	2.4	1.4	0.18	3	12	1.3	<2	1.1	<1.0	-	23	12	-	-	-	OC, hem-carbonate veins in gw
5	4704	C	5'	25.6	36	2.1	1.2	4.7	42	6.8	<2	1.9	1	-	70	28	-	-	-	OC, gw w/calc/hem veins

Marble Creek

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
6	4720	Rep	5'	24	<0.1	8	5	41	8	9	6	<5	<2	-	-	-	-	-	-	OC, skarn, no sulf

El Capitan

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
7	LS166	SC	110' @ 5'	11.0	0.39	0.25	0.10	55.14	0.53	<0.02	42.35	0.03	<0.1	<0.01	0.01	<0.01	<0.01	99.69	98.37	TP, coarse-grained, banded marble, org
8	LS165	SC	175 @ 10'	12.1	0.62	0.38	0.10	55.08	0.61	<0.02	42.40	0.03	<0.1	<0.01	0.02	<0.01	0.01	100.03	98.26	TP, dissem py in coarse marble
13	LS167	Rep	300'	15.6	0.34	0.28	0.07	55.14	0.70	<0.02	42.22	0.03	<0.1	<0.01	<0.01	<0.01	0.01	99.80	98.37	OC, variegated marble, no dikes

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
9	4712	Rep	15'	<5	<0.1	37	3	42	10	16	22	<5	<2	-	-	-	-	-	-	OC, hnbd, di, skarn contact
10	4710	Rep	5'	<5	0.3	485	4	58	546	17	20	13	<2	-	-	-	-	-	-	OC, hnbd gabbro, skarn contact
10	4711	Rep	25'	<5	0.6	250	5	22	13	9	14	<5	<2	-	-	-	-	-	-	OC, altered igneous w/marble bands
11	4709	Rep	10'	<5	0.3	96	3	34	70	5	5	<5	<2	-	-	-	-	-	-	OC, qz monzonite, py to 2%

Calder Quarry

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
12	LS159	Rep	190'	9.7	0.31	0.17	0.06	55.02	0.53	<.02	42.38	0.04	<0.1	0.04	0.02	0.01	<0.01	99.41	98.23	OC, outcrop stripped, pure white marble
12	LS160	Rep	110'	9.7	0.48	0.18	0.06	55.02	0.54	<.02	41.94	0.04	<0.1	0.03	<0.01	<0.01	<0.01	99.57	98.23	TP, coarse white marble, friable
12	LS161	Rep	130'	8.3	0.26	0.14	0.05	55.21	0.53	<.02	41.97	0.03	<0.1	0.02	0.02	<0.01	<0.01	99.62	98.57	TP, similar to LS160, more mottled
12	LS162	Rep	60' @ 5'	7.5	0.57	0.22	0.06	54.68	0.45	<.02	41.79	0.04	<0.1	0.01	<0.01	<0.01	<0.01	98.99	97.63	TP, coarsely crystalline, dike

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
12	4697	C	2'	<5	0.3	70	3	76	17	6	16	<5	<2	-	-	-	-	-	-	OC, altered di dike, w/py to 5%

Angus Lillie (Dry Pass)

14	4690	Rep	8'	<5	0.2	22	13	67	485	9	9	21	<2	-	-	-	-	-	-	TP, skarn, mo along fractures
14	4691	C	4'	8	<0.1	16	3	116	2344	10	16	11	3.4	-	-	-	-	-	-	TP, skarn, mo clots
14	4700	C	4'	<5	0.2	9	5	78	4.6*	10	11	5	<2	-	-	-	-	-	-	OC, skarn, mo to 50% locally
14	4701	C	5'	<5	<0.1	5	3	46	534	11	6	12								TP, skarn w/garnet, tr mo

Sutter Lakes

15	4688	SS		<5	<0.2	28	6	20	38	5	11	-	<20	460	4.73	13	-	-	-	silt, clay, org, no moss
15	4689	SS		14	<0.2	69	4	40	2	7	11	-	<20	410	3.82	13	-	-	-	sand, silt, clay, no oxides
16	4667	SS		6	<0.2	87	6	37	22	9	13	-	<20	420	3.41	17	-	-	-	sand, silt, clay, gravel
16	4668	SS		6	<0.2	115	5	41	42	7	20	-	<20	420	4.32	15	-	-	-	sand, silt, clay, gravel
17	4669	SS		10	<0.2	175	6	59	47	8	17	-	<20	410	3.94	13	-	-	-	sand, silt, clay, gravel
17	4686	Rep	0.1'	1188	1.3	1430	11	31	1035	8	9	5	<2	-	-	-	-	-	-	OC, qz vein in hnbd di; mo,cp to 3%
17	4687	SS		6	<0.2	162	6	60	68	8	22	-	<20	400	3.75	13	-	-	-	sand, silt, clay, gravel

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
Alaska Chief prospect (Shakan)																				
18	4663	C	5'	<5	1.1	1358	4	25	13727	9	45	<5	<2	-	-	-	-	-	-	UW, br di, qz veins w/mo,cp
18	4664	C	4.5'	13	0.8	678	7	25	3.896*	13	35	10	<2	-	-	-	-	-	-	UW, qz vein w/mo, cp, ml
18	4665	Rep	5'	11	0.5	568	3	32	261	11	54	11	8.3	-	-	-	-	-	-	UW, hn br, hnbd di, qz veins
18	4674	C	5'	10	0.4	418	3	35	19	11	27	9	3.4	-	-	-	-	-	-	UW, altered di w/qz veins
18	4675	C	3'	<5	0.5	152	4	26	2419	6	18	<5	2.5	-	-	-	-	-	-	UW, br altered di, qz veins, clots
18	4676	C	5'	32	9.6	2520	6	27	2862	22	121	7	45	-	-	-	-	-	-	UW, qz-feldspar vein, min
18	4677	C	5'	8	4	8230	3	21	606	25	107	<5	27	-	-	-	-	-	-	UW, qz vein, msv py, cp
18	4678	Rep	4'	36	2.3	2353	6	54	4163	18	235	13	64	-	-	-	-	-	-	UW, di, qz veins
18	4679	C	5'	14	4.1	5188	4	46	15662	44	445	29	<2	-	-	-	-	-	-	UW, altered di, hn, minor qz
18	4680	C	5'	<5	2.9	4896	4	74	8722	16	303	16	17	-	-	-	-	-	-	UW, br zone of di, hn, qz
18	4681	C	4'	5390	<0.1	371	<2	15	112	6	27	6	<2	-	-	-	-	-	-	UW, banded hn
El Cap Gold prospect																				
19	4666	C	1.2'	5329	2.5	256	113	16	-	-	-	-	-	-	-	-	-	-	-	TP, qz vein, py, tr cp
19	4682	C	1.3'	.242*	1.5	129	215	167	-	-	-	-	-	-	-	-	-	-	-	TP, qz vein, hw
19	4683	C	1.9'	235	7.5	639	1112	413	-	-	-	-	-	-	-	-	-	-	-	TP, qz vein plus gouge, fw
19	4684	C	4.0'	53	0.5	10	34	72	-	-	-	-	-	-	-	-	<0.2	-	-	TP, gs, py to 3%
19	4685	S		59.13*	>50	3009	3351	1431	-	-	-	-	<2	-	-	-	10.9	-	-	TP, sulf, visible gold
19	4721	Rep	2'	177	0.7	154	290	20	4	7	3	9	<2	-	-	-	-	-	-	OC, vein in creek above workings
Devilfish Bay prospect																				
20	4647	Rep	15'	12	3	3695	3	950	5	28	28	6	<2	-	-	-	-	-	-	OC, min hn w/marble
20	4651	S	2'	16	0.4	2656	4	176	6	20	49	23	22	-	31.1	-	-	-	-	FL, mag-rich skarn, cp to 3%
21	4633	SS		6	<0.2	<1	10	107	<1	17	13	-	<20	360	2.89	32	-	-	-	mixed sediments, org
21	4634	S		<5	<0.1	217	<2	14	8	9	7	<5	<2	-	-	-	-	-	-	FL, altered porph, sulf to 4%
21	4635	SS		6	<0.2	<1	4	187	7	26	12	-	<20	380	2.61	42	-	-	-	sand, silt, clay, no org
21	4636	S		<5	<0.1	28	3	13	2	7	6	<5	<2	-	-	-	-	-	-	FL, min granodiorite
21	4637	SS		12	<0.2	<1	4	82	<1	28	17	-	<20	470	3.33	46	-	-	-	O, mixed sediments, no org
21	4638	Rep	4'	<5	<0.1	158	<2	40	13	39	21	16	<2	-	-	-	-	-	-	OC, banded skarn, py to 20%
21	4639	Rep	1'	<5	<0.1	145	3	18	3	14	14	8	2.4	-	-	-	-	-	-	OC, granodiorite, py to 10%

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
Tokeen quarry																				
22	LS120	Rep		11.4	<0.01	0.17	0.03	55.59	0.39	<.02	43.01	<0.01	<0.1	<0.01	0.06	0.01	<0.01	99.89	99.23	MD, sampled from quarried slabs, mottled
23	LS121	Rep		13.1	<0.01	0.19	0.06	55.71	0.39	<.02	43.33	<0.01	<0.1	<0.01	0.04	0.01	<0.01	100.14	99.46	MD, mottled-stockwork, slabs
23	LS122	Rep		14.5	0.08	0.23	0.06	55.66	0.37	<.02	43.09	0.01	<0.1	<0.01	0.04	0.02	<0.01	99.90	99.36	MD, coarse-grain marble, mottled

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
McCullough Mine																				
24	4628	S	20' x 30'	58	6.8	3.03*	4	22	-	-	-	-	-	-	-	-	-	-	-	MD, qz br, cp to 10%
24	4629	Rep	3'	120	3.5	12095	5	16	-	-	-	-	-	-	-	-	-	-	-	OC, br qz vein, ar, cp to 5%
24	4643	Rep	5'	34	0.7	1418	7	202	-	-	-	-	-	-	-	-	-	-	-	OC, silicified gw, dissem py
24	4644	S	6' x 20'	68	11.9	4.39*	4	29	-	-	-	-	-	-	-	-	-	-	-	MD, br qz w/sulf
24	4645	C	6'	48	4.9	17974	4	23	-	-	-	-	-	-	-	-	-	-	-	OC, br qz vein, cp to 10%
24	4658	C	6'	21	2.2	6329	<2	9	4	-	-	-	-	-	-	-	<0.2	-	-	OC, qz vein br w/ar, native copper
24	4659	Rep	4' x 6'	31	1.6	2980	3	7	-	-	-	-	-	-	-	-	-	-	-	OC, br ar w/qz, sulf
24	4660	C	5'	74	3.5	10279	12	17	-	-	-	-	-	-	-	-	-	-	-	OC, br qz w/ar clasts
24	4671	C	6.5'	50	4.1	10248	3	10	-	-	-	-	-	-	-	-	-	-	-	OC, br qz vein, sulf to 10%
24	4672	Rep	10'	53	4	14061	3	12	-	-	-	-	-	-	-	-	-	-	-	OC, br qz vein w/sulf
24	4673	C	4'	41	5.1	2.09*	3	14	-	-	-	-	-	-	-	-	-	-	-	OC, qz br w/ar clasts, cp to 25%
25	4661	Rep	6'	6	<0.2	105	19	187	3	26	13	-	<20	770	4.55	44	-	-	-	TP, black ar, py stringers

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
Edna Bay - Cape Pole																				
26	LS140	SC	160' @ 5'	11.1	0.6	0.27	0.08	54.7	1.01	<.02	43.09	0.02	<0.1	<0.01	0.09	0.01	0.02	99.74	97.64	TP, ls, micritic-med gr, calc veinlets
27	SG100		See appendix table A-5																	
28	LS132	SC	210' @10'	14.1	0.69	0.32	0.08	54.73	0.34	<.02	43.16	0.04	<0.1	<0.01	0.03	0.02	<0.01	99.22	97.7	TP, micritic ls, abundant fractures
29	LS124	SC	50' @ 2'	14.6	0.11	0.22	0.07	54.22	0.7	<.02	43.03	0.01	<0.1	<0.01	0.04	0.02	0.01	97.97	96.79	TP, dk-grey ls, calc blebs
29	LS125	Rep	110'	13.8	0.14	0.28	0.08	54.2	0.58	<.02	43.02	0.07	0.1	<0.01	0.11	0.02	0.01	98.13	96.75	TP, ls, fractured, calc veins, resources
30	LS126	SC	100' @ 5'	13.3	0.15	0.28	0.06	55.3	0.56	<.02	43.2	0.01	<0.1	<0.01	0.05	0.02	0.01	99.85	98.71	TP, lt grey-buff ls, pervasive

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
31	LS127	SC	75' @ 3'	12.8	0.59	0.21	0.08	54.6	0.31	<.02	42.91	0.01	<0.1	<0.01	0.03	0.01	<0.01	98.71	97.47	TP, micritic ls, clean, jointed
32	LS130	SC	95' @ 5'	12.0	0.49	0.32	0.05	55.1	0.51	<.02	43.15	0.02	<0.1	<0.01	0.04	0.02	<0.01	99.91	98.46	TP, ls, competent, resources
33	LS128	SC	80' @ 3'	14.3	0.61	0.26	0.09	54.6	0.63	<.02	43.24	0.01	<0.1	<0.01	0.05	0.01	<0.01	99.14	97.47	OC, ls, org, calc veins reworked
34	LS117	SC	95' @ 5'	11.9	0.25	0.42	0.09	54.2	0.98	<.02	42.30	0.01	<0.1	<0.01	0.02	0.02	<0.01	98.55	96.74	TP, msv ls, mafic plug in pit
34	LS144	Rep	75'	11.8	0.66	0.52	0.06	54.9	0.60	<.02	42.73	0.04	<0.1	<0.01	0.03	0.01	0.01	99.92	97.99	OC, micritic ls, no dikes, calc veins
35	LS143	Rep	75'	10.3	0.67	0.35	0.06	54.8	0.60	<.02	43.38	0.03	<0.1	<0.01	0.07	0.01	0.01	99.59	97.79	OC, fluted ls, clean, resources
36	LS116	Rep	165'	15.9	0.08	0.30	0.07	54.9	1.40	<.02	42.13	0.01	<0.1	<0.01	0.02	0.02	0.01	99.97	98.06	TP, ls, fractured,ankerite-filled, resources
37	LS129	SC	150' @ 5'	13.2	0.45	0.46	0.05	55.2	0.40	<.02	42.93	0.02	<0.1	<0.01	0.03	0.02	<0.01	99.96	98.52	TP, ls,uniform, pervasive fractures
38	LS115	SC	200' @10'	14.4	0.96	0.36	0.15	53.1	1.24	<.02	42.98	0.02	<0.1	<0.01	0.03	0.03	0.02	97.59	94.78	TP, ls, black-white, org, thin slate beds
39	LS118	SC	90' @ 5'	10.9	0.10	0.17	0.06	55.3	0.70	<.02	42.65	0.01	<0.1	<0.01	0.02	0.02	0.01	99.82	98.71	OC, fg ls, org, mottled locally
40	LS119	SC	115' @ 5'	15.7	0.02	0.18	0.04	54.9	1.17	<.02	42.57	0.01	<0.1	0.01	0.02	0.02	<0.01	99.46	97.99	TP, dk-grey micritic ls, orgs, msv
41	LS142	SC	160' @ 5'	14.3	0.61	0.30	0.06	54.6	0.88	<.02	43.46	0.02	<0.1	<0.01	0.03	0.02	0.01	99.40	97.46	TP, micritic ls, minor silty, interbeds, resources
42	LS131	SC	190' @ 8'	12.9	0.50	0.18	0.06	54.9	1.02	<.02	43.33	0.02	<0.1	0.02	0.02	0.02	<0.01	99.90	98.06	OC, lt-grey micritic ls, many fractures
42	LS139	SC	120' @ 5'	12.8	0.76	0.32	0.10	54.6	1.10	<.02	43.46	0.07	<0.1	<0.01	0.04	0.02	0.01	99.91	97.49	TP, ls mixed, reddish weathering, resources
42	LS141	SC	250' @10'	13.3	0.45	0.28	0.05	54.8	0.91	<.02	43.27	0.02	<0.1	<0.01	0.03	<0.01	0.02	99.66	97.89	TP, ls micritic and cg, buff-tan
43	LS113	Rep	75'	6.3	1.08	0.50	0.12	54.4	0.55	<.02	42.50	0.01	0.12	<0.01	0.02	0.01	0.02	99.60	97.17	OC, fg lt-grey ls, fractured, resources
44	LS114	Rep	100'	9.3	0.64	0.56	0.14	54.6	0.44	<.02	42.33	0.03	<0.1	<0.01	0.02	0.02	0.04	99.42	97.52	OC, msv beds, beach outcrop
45	LS135	SC	175' @10'	10.2	0.64	0.59	0.08	54.5	0.81	<.02	43.35	0.04	<0.1	<0.01	0.08	<0.01	<0.01	99.55	97.30	TP, indurated, recrystallized ls, resources
46	LS133	SC	210' @10'	12.9	0.46	0.17	0.03	55.1	0.56	<.02	43.39	0.02	<0.1	0.03	0.03	0.01	<0.01	99.66	98.35	TP, micritic, competent, uniform
47	LS134	SC	150' @ 5'	13.7	0.53	0.20	0.04	54.8	0.33	<.02	43.11	0.04	<0.1	0.02	0.02	0.02	0.01	99.11	97.90	TP, lt-medium grey, silty laminae
48	LS136	Rep	200'	11.2	0.66	0.34	0.13	54.8	0.53	<.02	43.20	0.04	<0.1	<0.01	0.07	0.01	0.01	99.06	97.82	OC, lt-grey micritic, calc blebs, resources
48	LS137	Rep	200'	13.1	0.66	0.43	0.08	54.5	0.54	<.02	43.25	0.04	<0.1	<0.01	0.09	0.01	0.01	99.15	97.28	OC, lt-grey micritic, calc blebs
49	LS138	SC	125' @ 5'	12.3	1.35	1.80	0.18	51.2	3.20	0.05	43.53	0.10	0.15	0.01	0.04	0.02	0.02	98.39	91.47	TP, micritic ls, mixed buff/black

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
									Limestone Point											
50	4463	C	2.5'	<5	<0.1	77	8	79	-	-	-	-	-	-	-	-	-	-	-	OC, polymictic cg, fest, pebbles
50	4476	C	3.5'	154	2.2	7829	7	98	-	-	-	-	-	-	-	-	-	-	-	OC, polymictic cg, cobbles

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
51	LS112	SC	200' @10'	11.3	1.16	0.39	0.27	54.49	0.39	<.02	42.47	0.02	<0.1	<0.01	0.04	0.02	0.02	99.61	97.27	OC, minor resource, ls bounded by cg unit
									Orr Island											
52	LS123	Rep	75'	15.1	<0.01	0.16	0.1	55.4	0.5	<.02	43.31	0.01	<0.1	<0.01	0.02	0.02	<0.01	99.74	98.93	OC, coarse ls, mottled, blocks

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
52	4464	C	1.5'	<5	<0.1	30	7	79	-	-	-	-	-	-	-	-	-	-	-	OC, porph an dike, py to 5%
									Luck Lake											
53	4662	Rep	25'	<5	<0.2	168	11	23	<1	23	27	-	<20	230	6.08	58	-	-	-	TP, br gs porph
									Eagle Island											
54	4699	Rep	25'	6	<0.2	2	4	<1	<1	<1	<1	-	<20	40	0.41	10	-	-	-	OC, calc vein, fest

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
55	LS163	SC	200' @10'	13.0	0.76	0.3	0.13	54.7	0.45	<0.02	42.38	0.04	<0.1	<0.01	0.04	<0.01	0.01	99.36	97.63	OC, f-med grey ls, reworked

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
										Cap Island										
56	4698	Rep	10'	<5	<0.2	61	3	76	<1	8	19	-	<20	170	5.19	19	-	-	-	OC, mafic volcanic

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
57	LS164	SC	300' @12'	10.3	0.65	0.4	0.17	54.5	0.52	<0.02	42.22	0.02	<0.1	<0.01	0.01	<0.01	0.02	99.01	97.23	OC, variable ls types, stylolites, resources
											Heceta Island									
58	LS110	SC	200' @10'	12.5	0.57	0.29	0,10	54.35	0.63	<.02	42.83	0.04	<0.1	<0.01	0.11	0.02	0.01	98.81	97.03	OC, fg micritic ls, msv
59	LS111	SC	200' @10'	12.1	0.36	0.27	0.09	54.70	0.60	<.02	42.75	0.04	<0.1	<0.01	0.11	0.02	0.01	99.21	97.71	OC, homogenous fg micritic ls
60	LS156	SC	275' @10'	14.4	1.38	0.41	0.17	53.70	1.08	0.03	43.09	0.04	<0.1	<0.01	0.23	<0.01	0.03	99.25	95.88	TP, reworked ls, stylolites present
61	LS155	Rep	150'	10.8	1.06	0.50	0.07	54.40	0.51	<.02	42.95	0.04	<0.1	0.05	0.03	0.01	0.02	99.31	97.02	OC, micritic grey ls, no org
62	LS105	SC	200' @10'	13.8	0.90	0.45	0.22	54.60	0.75	<.02	42.90	0.04	<0.1	<0.01	0.03	0.02	0.02	99.89	97.46	OC, msv, smeared ls
63	LS106	SC	200' @10'	16.8	0.67	0.25	0.16	54.80	0.60	<0.02	43.02	0.03	<0.1	<0.01	0.03	0.03	0.01	99.52	97.73	OC, micritic grading to coarse texture
64	LS107	SC	200' @10'	10.6	1.59	0.34	0.19	53.80	0.58	<.02	42.43	0.03	<0.1	0.04	0.05	0.02	0.01	98.83	95.98	OC, msv, calc veinlets, resources
65	LS157	SC	110' @ 5'	11.3	1.70	0.40	0.08	53.97	0.62	0.03	42.95	0.05	<0.1	<0.01	0.05	<0.01	0.02	99.30	96.34	TP, fg-med grain, no dikes, resources
66	LS147	SC	230' @10'	15.4	1.14	0.59	0.12	53.80	0.55	0.02	43.00	0.05	<0.1	0.01	0.04	0.01	0.03	98.69	96.11	TP, msv, coarse calc, clean, resources
66	LS148	SC	200' @10'	11.4	1.57	0.35	0.25	54.10	0.75	0.08	42.79	0.30	0.11	0.01	0.06	0.01	0.03	100.05	96.64	TP, med grain w/orgs, jointed
66	LS149	SC	220' @ 8'	12.8	1.13	0.36	0.15	53.80	0.55	0.02	42.93	0.03	<0.1	0.01	0.09	0.01	0.02	98.55	96.18	TP, good potential resources, micritic ls
67	LS150	SC	250' @10'	11.6	1.56	0.44	0.12	53.60	0.52	<.02	43.01	0.03	<0.1	0.01	0.05	0.01	0.03	98.54	95.77	TP, lt-dk grey ls, org, resources
68	LS158	SC	300' @15'	14.5	0.63	0.33	0.09	54.70	0.40	0.04	43.01	0.02	<0.1	0.02	0.05	<0.01	0.02	99.26	97.65	TP, coarse-reworked, fractured reserves
69	LS146	SC	215' @10'	13.5	1.06	0.33	0.10	54.40	0.51	0.02	43.18	0.03	<0.1	<0.01	0.05	0.02	0.02	99.24	97.10	TP, ls cg, org, resources
70	LS151	Rep	215' @ 8'	12.9	0.91	0.39	0.08	54.10	0.38	<.02	42.82	0.17	<0.1	0.03	0.09	0.01	0.02	98.64	96.56	TP, ls, red-st, banded,minor cherty
71	LS145	SC	200' @10'	12.7	0.99	0.43	0.10	54.90	0.42	<.02	43.05	0.04	<0.1	<0.01	0.04	0.01	0.02	99.97	97.91	OC, ls, fluted surface, msv, resources
72	LS152	SC	200' @ 5'	12.2	0.65	0.24	0.05	55.2	0.40	<.02	42.95	0.01	<0.1	<0.01	0.03	<0.01	0.02	99.94	98.53	TP, excellent lt-grey micritic ls
73	LS154	Rep	180'	11.1	0.56	0.38	0.05	54.9	0.41	<.02	42.67	0.03	<0.1	<0.01	0.02	0.02	0.02	99.50	97.99	TP, fg lt-grey micritic, fractured
74	LS108	G		16.6	0.11	0.21	0.05	55.3	0.39	<.02	42.66	0.02	<0.1	<0.01	0.02	0.02	0.01	99.63	98.79	TP, micritic, breaks well,resources
74	LS109	G		10.5	0.8	0.47	0.13	54	0.43	<.02	42.12	0.03	0.11	<0.01	0.03	0.02	0.02	98.44	96.40	TP, chalky,blast-induced, resources

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
75	LS103	SC	170' @ 5'	10.8	1.81	0.48	0.23	52.9	0.97	0.03	42.56	0.05	<0.10	0.01	0.03	0.03	0.02	98.07	94.41	OC, ls br micritic, resources
75	LS104	SC	147' @ 5'	7.5	3.43	0.78	0.44	51.4	1.86	0.17	41.48	0.11	0.18	0.01	0.03	0.02	0.03	98.81	91.75	OC, msv ls, minor stylolites
76	LS153	SC	175' @ 8'	13.6	0.66	0.37	0.07	54.8	0.41	<.02	43.18	0.02	<0.10	0.02	0.03	0.01	0.02	99.43	97.82	TP, ls, minor fest, large resource
77	LS102	Rep	180'	10.0	2.07	0.43	0.16	52.7	1.12	0.03	42.46	0.05	0.10	0.01	0.03	0.03	0.02	98.12	94.07	OC, micritic, minor stylolites, resources

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
72	4630	Rep	1' wide	<5	<0.2	195	3	46	<1	77	18	-	<20	30	3.69	100	-	-	-	OC, altered porph dike
78	4646	Rep	15'	6	<0.2	<1	5	63	<1	82	20	-	<20	570	4.01	163	-	-	-	OC, volc cg

Tolstoi (Iron Cap prospect)

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ti	Fe	Cr	V	Pt	Pd	Sample description
79	4538	SS		<5	0.3	57	21	27	<1	2	1	-	<20	-	0.52	8	-	-	-	silt, clay, w/in di porph
79	4539	Rep	25'	<5	0.2	124	5	56	2	24	28	5	16	-	>10	-	-	-	-	OC, meta-volc, gabbro, dacite
79	4540	SC	12' @ 1'	354	1	9960	15	186	4	68	136	32	49	300	51.54	-	-	8	4	TP, skarn, w/mag and cp
79	4551	SC	13' @ 2'	404	2.4	19928	12	134	3	51	108	29	37	300	54.42	-	-	10	5	TP, mag-sulf rock, cp to 15%
79	4552	SC	12' @ 1'	20	0.4	2644	4	65	6	17	99	32	51	500	54.27	-	39	-	-	TP, ep gs, mag to 55%
79	4553	SS		<5	<0.2	94	11	39	5	10	29	-	<20	-	>10	28	-	-	-	silt, clay with 15% gravel
79	4554	C	5'	32	1.4	7836	10	80	<1	22	58	-	-	600	52.36	-	101	<5	<1	TP, ep skarn in gs host
79	4555	SC	10' @ 1'	7	0.2	243	9	59	2	20	26	9	3.2	2600	17.44	-	-	-	-	UW, gs porph, mag to 40%
79	4556	Rep	4'	11	0.4	564	6	128	2	11	33	17	<2	1800	22.51	-	-	-	-	UW, gs porph, tr sulf
79	4557	Rep	8'	<5	0.2	175	6	72	<1	14	37	16	<2	2000	29.02	-	-	-	-	UW, gs porph, dissem sulf
79	4558	S		64	1.6	5429	9	110	2	36	187	8	<2	900	19.73	-	-	-	-	UW, gs w/cp, py and mag to 25%
79	4559	SC	15' @ 1'	16	1.1	863	93	90	3	18	92	26	15	400	66.23	-	-	-	-	OC, mag-gs, dissem sulf
79	4560	Rep	7'	88	1.3	2509	125	85	13	16	84	31	37	300	66.25	-	-	-	-	TP, gs skarn w/mag to 90%

Rush Peak

80	4648	Rep	5'	6	<0.1	1550	3	30	-	-	-	-	-	-	-	-	-	-	-	TP, br ar w/calc veins, cp
80	4649	Rep	2'	<5	<0.1	3881	<2	16	-	-	-	-	-	-	-	-	-	-	-	TP, ar, gs, cp, py to 5%
80	4650	S		<5	<0.1	5565	3	17	<1	12	21	-	<20	-	2.11	57	-	-	-	TP, cp in clots in fractures
80	4652	Rep	4'	<5	<0.1	3738	<2	23	-	-	-	-	-	-	-	-	-	-	-	TP, br gs, ar
80	4653	Rep	4'	<5	<0.1	2797	3	31	-	-	-	-	-	-	-	-	-	-	-	TP, gs, ar cg, min calc stringers

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ti	Fe	Cr	V	Pt	Pd	Sample description
80	4654	C	5'	<5	<0.1	998	2	36	-	-	-	-	-	-	-	-	-	-	-	TP, sheared ar, gs porph br
80	4655	C	3'	<5	<0.1	919	3	34	-	-	-	-	-	-	-	-	-	-	-	TP, gouge zone w/br ar, gs
80	4656	C	4'	9	<0.1	2619	4	23	-	-	-	-	-	-	-	-	-	-	-	TP, gs, ar br in shear zone
80	4657	C	3'	10	<0.1	2914	3	8	-	-	-	-	-	-	-	-	-	-	-	TP, min gouge zone, cp, ml
																				Loon Lake Pit
81	4632	C	5'	<5	<0.2	92	2	84	<1	13	23	-	<20	-	4.99	44	-	-	-	OC, mafic volc w/qz
																				Rush & Brown Mine
82	4400	S		<5	<0.1	235	-	-	-	32	4	-	-	700	47.98	-	210	-	-	MD, mag ore, hand sorted
82	4401	G		163	0.5	1381	-	-	-	31	21	-	-	1100	42.58	-	224	-	-	MD, mag ore, an host, from dump
82	4402	S		4167	42.7	8.23*	13	777	2	35	243	-	-	900	25.08	-	118	-	-	MD, cpy, mag skarn material
82	4403	G	40'	5726	12.4	1.67*	-	-	-	32	436	-	-	2400	17.72	-	180	-	-	MD, mafic volc with py
82	4404	G		82	1	1907	-	-	-	25	25	-	-	4400	3.92	-	130	-	-	MD, gs br, alt di, limy clastics
82	4405	G		158	0.4	652	-	-	-	36	30	-	-	5200	5.68	-	170	-	-	MD, gs br, alt an, hn
																				Copper Center prospect
83	4631	S	0.33'	61	<0.1	675	3	103	27	59	57	<5	<2	-	-	-	-	-	-	OC, min gs, py, mag
																				Haida Mine
84	4625	C	3'	657	6.1	16200	6	51	4	26	58	<5	<2	-	-	-	-	-	-	TP, min skarn
85	4605	S	5'	2700	3.3	5936	11	85	3	17	83	28	5.6	-	-	-	-	<5	4	TP, min skarn, cp, mag
85	4606	S	10'	306	1.3	5259	<2	68	<1	19	64	31	<2	-	56.16	-	-	-	-	TP, msv mag w/tr ml
85	4620	SC	10' @ .5'	776	1.8	10635	4	314	<1	23	76	17	<2	-	-	-	-	-	-	TP, mag-sulf ore & gs
85	4621	SC	10' @ .5'	963	3.7	14459	4	234	<1	27	106	32	<2	-	50.3	-	-	-	-	UW, ore rock, mag, cp
85	4622	SC	9' @ .5'	360	1.4	4968	4	172	<1	18	68	13	<2	-	32.9	-	-	-	-	UW, ore and gs w/skarn, cp, ml
85	4623	C	3'	3840	8.9	3.83*	6	515	<1	29	166	36	<2	-	48.71	-	187	-	-	UW, min skarn, mag to 50%
85	4624	C	5'	846	4.5	13569	6	69	2	12	53	9	<2	-	18.99	-	-	-	-	UW, hn, ep-rich
85	4625	C	3'	657	6.1	16200	6	51	4	26	58	<5	<2	-	-	-	-	-	-	TP, min skarn, cp, mag, py
85	4626	S		396	1.2	6727	3	165	<1	19	68	30	<2	400	57.13	-	180	11	6	MD, mag ore w/sulf, sorted
85	4627	C	3.5'	120	1.4	8552	5	64	<1	16	119	13	<2	-	-	-	-	-	-	TP, calc-silicate w/meta-volc

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ti	Fe	Cr	V	Pt	Pd	Sample description
										It Mine										
86	4520	S		7240	39.4	13.88*	7	246	3	264	305	24	3.4	-	>10	-	-	-	-	MD, skarn w/cp to 25%
87	4534	C	5'	510	4.2	4345	3	43	2	30	31	28	2.1	-	-	-	-	-	-	OC, min skarn, sulf to 15%
88	4521	C	3'	85	0.8	876	4	49	8	29	34	13	8.7	-	-	-	-	-	-	UW, skarn adjacent to shear
88	4522	C	3.2'	1060	45.2	13.99*	5	95	5	25	36	13	<2	-	-	-	-	-	-	UW, marble, an dike, cp clots
88	4523	C	3'	3520	24.9	4.59*	6	149	18	93	98	8	15	-	-	-	-	-	-	UW, skarn w/sulf
88	4524	C	2.5'	5040	24.4	5.81*	5	98	15	286	268	23	14	-	-	-	-	-	-	UW, skarn, cp, ml, az
88	4535	S		6620	2.83*	18.69*	5	592	2	102	174	20	<2	-	2.83*	-	-	-	-	OC, skarn, cp to 40%
88	4541	Rep	3'	7660	1.67*	22.90*	10	350	25	213	305	40	24	-	22.9	-	-	-	-	UW, min skarn, cp-rich
88	4542	Rep		35	0.9	1787	4	43	25	11	9	<5	<2	-	-	-	-	-	-	TP, skarn, gs, barren rock
										Poorman prospect										
89	4589	C	6'	57	1.6	579	60	127	5	20	32	12	2.4	-	>10	-	-	-	-	TP, marble w/mag rind, Iron King 10
90	4588	S		388	0.2	580	<2	41	5	37	135	16	65	200	58.99	-	34	-	-	MD, mag-sulf ore, shaft 3
91	4579	Rep	1'	1047	0.8	105	7	116	68	30	513	16	23	600	28.18	-	-	-	-	TP, mag skarn, w/calc
91	4583	C	6'	804	0.8	1452	4	66	4	27	76	29	51	400	61.03	-	-	-	-	OC, ore, mag, cp, fest
91	4584	SC	13' @ .5'	2031	1.5	6675	5	86	26	19	128	22	<2	1000	25.1	-	-	7	2	UW, skarn w/calc blebs, cp, mag
91	4585	Rep	10'	125	0.4	1011	3	54	71	10	21	<5	<2	-	-	-	-	-	-	UW, alkalic dacite and gs
91	4586	C	3'	250	0.4	1020	4	44	5	31	108	30	92	300	63.86	-	56	-	-	UW, mag ore, adit 1 portal
91	4587	S		1418	2.4	10452	5	43	19	48	435	23	9.4	200	49.75	-	29	<5	4	UW, mag-sulf ore, adit 2
92	4565	C	4.4'	14	0.3	957	<2	11	-	-	-	<5	<2	-	-	-	-	-	-	TP, blue-green qz, py, tr cp
92	4566	C	4.9'	12	0.5	2981	<2	8	-	-	-	<5	<2	-	-	-	-	-	-	OC, qz vein w/br gs clasts
92	4567	C	2'	30	1.4	10943	<2	7	-	-	-	7	<2	-	-	-	-	-	-	OC, min qz vein, sulf to 30%
92	4568	C	3.4'	<5	<0.1	125	<2	26	-	-	-	<5	<2	-	-	-	-	-	-	TP, qz vein w/gs fragments
92	4569	C	3.2'	<5	<0.1	44	<2	44	-	-	-	5	<2	-	-	-	-	-	-	TP, br gs, py to 3%
92	4577	C	4'	12	0.6	2908	<2	9	-	-	-	<5	<2	-	-	-	-	-	-	OC, qz vein w/cp, py
92	4578	Rep	2'	18	0.2	182	3	32	-	-	-	7	<2	-	-	-	-	-	-	FL, qz vein w/gs pods, fest
92	4580	C	6'	18	0.4	1348	<2	6	-	-	-	5	<2	-	-	-	-	-	-	TP, qz vein, minor cp
92	4581	C	4'	10	0.1	400	<2	4	-	-	-	8	<2	-	-	-	-	-	-	TP, qz w/shear in gs
92	4582	C	1.6'	7	0.2	138	3	49	35	-	-	<5	3	-	-	-	-	-	-	TP, br qz in gs
										Copper Queen prospect										
93	4515	S		86	1.8	2681	12	33	10	140	813	10	<2	-	-	-	-	-	-	OC, min skarn in shear zone
93	4528	S		322	3.3	2541	15	32	2	26	352	27	<2	-	-	-	-	-	-	RC, ore in meta-basalt
93	4529	SS		12	1.3	57	75	257	1	26	24	-	<20	-	2.39	27	-	-	-	mixed silt, clay, sand, gravel

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ti	Fe	Cr	V	Pt	Pd	Sample description
93	4530	C	5'	561	6.7	1406	10	49	8	21	376	20	5.7	-	-	-	-	-	-	OC, altered volc, cp, py, sheared
93	4531	SS		10	0.5	55	30	111	1	20	16	-	<20	-	1.78	22	-	-	-	silt, clay, little org
93	4608	C	3.4'	626	4.1	3628	18	83	3	36	195	20	<2	-	-	-	-	6	5	UW, py skarn w/mag adit 2
94	4514	C	3'	131	1.3	2859	5	32	8	10	11	6	<2	-	-	-	-	-	-	UW, alkalic dacite, cp, ml
94	4526	C	4'	91	1.3	2382	5	37	8	15	25	9	2.4	-	-	-	-	-	-	UW, meta-volc, sulf < 3%
94	4527	C	5'	<5	0.3	385	3	36	3	6	10	8	<2	-	-	-	-	-	-	UW, br meta-volc
94	4607	S		64	0.5	575	5	56	-	-	-	-	-	-	-	-	-	-	-	MD, gs w/phenocrysts, barren sulf
														Hadley Smelter						
95	4609	G		2560	9.3	1945	42	258	26	23	57	-	-	-	>10	-	-	10	<1	MD tailings pile
95	4610	G		58	0.8	4612	3	495	27	18	172	-	-	1700	35.78	-	-	-	-	MD mag-sulf tailings
95	4611	G		58	<0.2	3118	11	829	16	12	116	-	<20	-	10	52	-	-	-	MD beach worked tailings pile
95	4612	G		60	<0.2	3535	21	1508	18	10	144	-	<20	-	38.3	61	-	-	-	MD slag from smelter
95	4613	G		2555	10.8	5.1*	7	511	10	49	240	-	<20	-	51.5	65	-	-	-	MD clinker material
														Rich Hill Mine						
96	4490	Rep	10'	898	8.4	2.66*	6	90	129	34	105	11	<2	-	-	-	-	-	-	TP, min skarn, glory hole
96	4491	C	3.2'	342	6.1	14910	5	123	174	21	47	13	<2	-	-	-	-	-	-	TP, gs & meta-sediment, py to 15%, cp
96	4492	Rep	8'	566	7.6	2.54*	6	64	39	42	82	18	2.4	2300	12	-	-	-	-	TP, meta-sediment host, cp in shear
96	4493	S		0.344*	43.5	6.15*	9	444	187	163	365	21	19	-	24.73	-	-	-	-	TP, min gs, cp w/ml, az
96	4494	Rep	3'	132	6.9	10698	8	31	7	69	35	<5	<2	-	-	-	-	-	-	UW, skarn/alkalic dacite dike
96	4495	C	4'	194	3.3	9039	5	94	172	17	42	<5	<2	-	-	-	-	-	-	UW, min ep skarn, cp, py
96	4496	S		3420	28.7	8.03*	6	168	129	48	247	9	<2	-	>10	-	-	<5	27	MD, meta-volc w/min, cp-rich
96	4497	C	5'	178	7.9	2.89*	5	21	3	24	24	7	<2	-	-	-	-	-	-	UW, min gs in shear
96	4498	C	5'	33	1.2	2508	6	17	4	8	7	6	<2	-	-	-	-	-	-	UW, gs, adit 1
96	4499	C	4'	46	2.1	5498	5	47	10	15	22	<5	<2	-	-	-	-	-	-	UW, br qz vein in gs, cp, ml
96	4511	Rep	15'	1126	11.9	3.69*	9	150	88	74	165	23	<2	1000	>10	-	-	<5	10	TP, min gs, meta-sed, cp
96	4512	C	4'	570	7.2	2.14*	5	102	10	29	115	<5	<2	-	5.47	-	-	-	-	UW, min gs in shear, adit 2
96	4513	C	4'	1696	17.6	6.32*	6	237	7	70	173	9	<2	-	9.6	-	-	-	-	UW, min gs, faulted, adit 2
97	4510	Rep	5'	474	4.9	8300	5	112	4	78	196	9	<2	-	-	-	-	-	-	UW, gs, minor sulf
														Mamie Mine						
98	4517	S		125	0.3	696	6	19	78	6	12	6	<2	-	-	-	-	-	-	MD, epidotized alkalic dacite
98	4518	SC	15' @ .5'	862	5.7	14206	23	302	3	37	94	37	2.6	600	44.13	-	118	<5	2	TP, skarn in sheared mag, min

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ti	Fe	Cr	V	Pt	Pd	Sample description
98	4519	S	50' x 20'	12	0.3	598	3	29	5	-	-	<5	<2	-	-	-	-	-	-	MD, di porph near shaft
98	4532	C	4'	362	3.7	7410	8	129	2	101	314	26	4.4	300	58.94	-	56	<5	2	OC, ore rock, mag-rich, glory hole
98	4533	S		1106	6.3	2.72*	5	235	3	34	130	24	<2	600	42.44	-	-	-	-	MD, mag-sulf skarn
98	4561	SC	25' @ 1'	181	6.1	18362	10	100	18	18	36	8	<2	-	>10	-	-	-	-	TP, skarn, min locally, spotty
98	4562	Rep	15' @ 1'	510	4.5	14003	6	65	4	19	18	23	<2	900	53.92	-	-	9	12	TP, min skarn w/gs, mag, cp
98	4563	Rep	10' x 15'	47	0.6	1678	3	62	198	17	10	10	<2	700	33.5	-	-	-	-	TP, mag-cp,py skarn
98	4570	SC	12' @ 1'	196	1	4328	4	42	49	19	111	16	<2	200	53.03	-	38	-	-	UW, mag skarn, adit 1
98	4571	SC	10' @ .5'	367	1.5	6150	4	37	43	15	232	20	<2	200	41.45	-	-	-	-	UW, min marble skarn, shear
98	4572	SC	15' @ 1.5	1331	4.1	17219	4	57	70	22	197	19	<2	200	51.99	-	-	<5	4	UW, mag-sulf skarn, adit 1
98	4573	SC	20' @ 1'	135	3.4	7961	3	151	12	31	64	<5	<2	-	9.62	-	-	-	-	UW, skarn in altered gs, cp, py
98	4574	SC	10' @ 1'	2926	9.2	3.35*	118	1500	8	30	118	<5	<2	1300	22.02	-	-	-	-	TP, gs w/marble lenses, cp to 5%
98	4575	SC	30' @ 3'	312	6.2	19524	5	118	151	31	42	26	<2	700	53.92	-	59	-	-	TP, mag skarn, mag to 50%, cp
98	4576	SC	5' @ .5'	99	1.8	11578	4	173	62	22	28	<5	<2	-	12.5	-	-	-	-	TP, mag skarn, cp, py
												Stevenstown Mine								
99	4483	Rep	15'	2500	9.3	3.25*	9	540	3	41	242	25	<2	500	30.57	-	-	-	-	TP, mag sulf skarn, glory hole 1
99	4484	Rep	5'	1512	5.2	2.46*	6	92	2	26	149	23	<2	1400	32.45	-	-	-	-	TP, min skarn, glory hole 2
99	4485	Rep	10'x 40'	1020	12	5.32*	10	140	7	28	145	19	<2	1400	21.07	-	-	-	-	TP, min skarn zone
99	4486	Rep	20'	922	4.5	13645	4	311	3	23	98	29	<2	400	57.33	-	91	<5	2	TP, mag skarn, glory hole 3
99	4487	Rep	10'	412	3.8	1.55*	5	91	6	21	107	23	<2	900	47.17	-	-	-	-	TP, mag skarn w/chl, ep, cp
99	4488	Rep	10'	724	4	19343	6	109	11	23	119	12	<2	1800	31.76	-	-	-	-	TP, skarn, mag, cp, py
99	4489	Rep	10'	1566	20.9	7.07*	6	189	24	29	227	29	<2	1000	28.63	-	-	-	-	TP, skarn w/mag, cp
99	4505	Rep	30'	1147	4.9	16336	5	271	3	34	97	22	<2	700	41.45	-	146	<5	2	TP, mag skarn, gs host
99	4506	C	4'	1076	13.4	4.83*	12	163	3	23	150	17	4.2	1200	19.73	-	-	-	-	TP, skarn w/mag, py, cp
99	4507	Rep	3'x 5'	2980	17	7.33*	8	110	2	34	215	27	<2	-	>10	-	-	-	-	TP, skarn, sulf, cp
99	4508	Rep	5'x 10'	2460	10.6	4.96*	6	213	5	34	551	23	<2	-	>10	-	-	-	-	TP, mag skarn, cp, ml/az
99	4509	Rep	5'x 20'	3620	24.4	7.33*	9	775	2	54	283	23	<2	-	>10	-	-	-	-	TP, skarn, glory hole 3
												Mount Andrew Mine								
100	4477	Rep	20'	90	3.2	11340	7	99	13	37	74	-	21	2000	33.7	-	-	-	-	TP, skarn w/cp, mag, py
100	4478	Rep	20'	393	1.7	7425	8	142	26	29	98	9	<2	2500	22.66	-	-	-	-	TP, epidotized skarn, mag to 30%
100	4479	Rep	10'	354	4.4	8810	9	110	8	51	109	24	2.4	600	56.26	-	-	-	-	OC, min skarn, above adit 2
100	4480	G	50' x 20'	1567	5.7	2.27*	6	79	32	38	170	11	3.8	300	29.82	-	35	<5	9	MD, ore from dump, cp in calc pods
100	4481	SC	15' @ 1'	872	26.3	5.99*	8	749	4	34	263	37	<2	600	53.43	-	-	-	-	TP, skarn, mag lens w/in dike
100	4482	SC	30' @ 2'	546	4.5	13669	6	214	7	23	91	25	<2	1100	48.26	-	-	-	-	TP, mag skarn w/ml/az
100	4500	S	3'	1594	17.1	7.26*	8	197	11	68	249	32	14	500	48.81	-	-	-	-	OC, skarn, cp, adjacent to dike

Table A.1 .--Selected analytical results, Northern Prince of Wales Island subarea. Map numbers refer to figure 4, section A.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ti	Fe	Cr	V	Pt	Pd	Sample description
100	4502	Rep	20'	560	4.9	13578	5	139	4	31	159	19	<2	500	55.22	-	61	<5	9	TP, mag, cp, py in skarn, shear
100	4503	S		722	25.8	7.55*	10	641	4	36	260	31	<2	900	41.8	-	-	-	-	TP, msv cp within mag skarn
100	4504	S		412	12.7	3.26*	6	271	4	32	156	42	<2	600	57.04	-	90	-	-	TP, mag skarn, cp, py
100	4525	C	5.5'	90	7.3	15049	7	184	5	30	150	22	35	1300	48.31	-	57	5	7	UW, mag-sulf ore material
100	4536	C	4'	29	1.6	3856	9	96	<1	22	35	16	<2	1300	37.42	-	-	-	-	UW, skarn, irregular, ml/az
100	4537	SC	15' @ 1'	278	1.3	3836	4	99	7	29	123	25	3.4	800	52.43	-	-	10	5	UW, skarn, altered gs
100	4543	C	4'	2239	23.5	3.72*	24	646	2	57	356	24	98	600	52.61	-	46	<5	38	UW, meta-volc porph, shear
100	4544	C	7'	12	0.5	555	4	80	3	13	23	8	3.2	-	-	-	-	-	-	UW, skarn br
100	4545	C	3.7'	47	4.8	9452	8	131	7	21	73	16	<2	1700	33.8	-	-	-	-	UW, min skarn, shear
100	4546	C	4'	558	18.1	3.92*	15	254	15	40	297	14	<2	2400	26.29	-	-	-	-	UW, skarn, subparallel to shear
100	4547	C	4.8'	18	0.7	1015	15	144	4	23	111	5	<2	-	-	-	-	-	-	UW, min gs porph
100	4548	C	5'	28	1.8	7634	6	144	2	39	64	22	<2	800	56.56	-	103	8	4	UW, skarn, mag, adit 2
100	4549	SC	15' @ 1'	695	4.9	15581	9	206	13	56	143	15	2.9	900	33.47	-	-	-	-	UW, gs, skarn w/mag, cp
100	4550	SC	8' @ 0.5'	171	4.6	10957	9	155	24	30	81	12	<2	-	>10	-	-	-	-	UW, gs with calc veins, ml, az
100	4590	SC	15' @ 1'	458	3.1	9419	6	117	47	29	148	24	3.7	1000	46.77	-	-	-	-	UW, mag ore, adit 1 skarn pods
100	4591	SC	15' @ 1'	157	2.7	7400	6	201	26	19	80	11	<2	2700	27.98	-	-	-	-	UW, skarn w/intercalated gs
100	4592	SC	12' @ 1'	496	3.5	11310	4	131	18	24	117	24	<2	900	51.64	-	-	-	-	UW, mag skarn, adit 1
100	4596	SC	22' @ 1'	1176	1.3	2193	7	110	2	32	64	27	<2	900	50.35	-	-	10	3	TP, mag w/sulf, compound orebody
100	4597	SC	17' @ 1'	38	1.1	1991	6	98	1	29	56	25	<2	700	57.85	-	-	-	-	TP, mag skarn, compound orebody
											Goodluck - Mayflower Mine									
101	4593	SC	9.5'@ .5'	792	4.5	10274	5	92	6	16	63	11	<2	-	25.74	-	-	-	-	TP, min gs, shears
101	4594	SC	12' @ .5'	370	1.9	5511	5	199	2	22	70	25	<2	900	49.85	-	-	-	-	TP, mag-sulf ore in pods
101	4595	SC	5.4'@ .5'	146	2.5	5332	4	315	<1	25	63	19	<2	700	48.66	-	-	7	6	UW, mag skarn, adit 1, shear
101	4598	SC	10.5'@.5'	<5	2.3	5653	6	233	2	20	96	11	<2	1200	39.36	-	-	-	-	UW, gs, adit 2 raise, fault
101	4599	SC	4.7'@. 5'	85	4.2	16662	4	152	2	24	112	27	<2	600	43.19	-	-	<5	8	UW, skarn w/mag, ml, az
101	4600	SC	7' @ .5'	1720	17.5	5.31*	5	762	2	31	172	17	<2	1600	30.32	-	-	-	-	UW, gs, adit 2 portal
101	4601	SC	15' @ 1'	638	4.3	12886	4	296	2	30	129	17	<2	700	51.5	-	-	-	-	UW, skarn, mag, cp, py
101	4602	C	4'	419	3.7	8016	5	219	4	23	67	18	<2	1500	39.67	-	85	14	9	TP, min gs, mag contact zone
101	4603	SC	11.5'@.5'	33	0.5	822	9	60	22	7	11	<5	<2	-	2.38	-	-	-	-	UW, skarn, minor sulf
101	4604	SC	12' @ .5'	82	3	5565	4	302	44	22	83	28	<2	1300	44.48	-	-	-	-	TP, skarn, mag, cp, py

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Ce	La	Y	Sample description
San Juan Bautista Island, north occurrence																				
102	3505	Rep	15'	21	<0.1	381	8	48	-	-	-	-	-	-	-	-	-	-	-	RC, sulf in meta-igneous rock
102	3506	C	3.1'	8	<0.1	339	6	45	-	-	-	-	-	-	-	-	35	18	25	QC, felsic-intermediate dike
San Juan Bautista Island, southwest prospect																				
103	3587	Rep		<5	0.2	326	2	48	3	8	15	8	<2	-	-	-	-	-	-	FL, gd w/ dissem sulf
103	3588	Rep		<5	0.2	129	<2	62	-	-	-	-	-	-	-	-	-	-	-	QC, intrusive w/ dissem sulf
103	3589	Rep		<5	0.2	276	4	36	-	-	-	-	-	-	-	-	-	-	-	FL, intrusive w/ dissem sulf
103	3590	Rep		11	0.6	1162	6	56	-	-	-	-	-	-	-	-	-	-	-	QC, intrusive w/ dissem sulf
103	3591	S		11	1	98	132	277	-	-	-	-	-	-	-	-	-	-	-	QC, fault gouge; select for sulf
103	3592	Rep		15	0.3	270	6	53	-	-	-	-	-	-	-	-	-	-	-	QC, intrusive w/ sulf in fractures

Wadleigh Island limestone

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
104	LS200	SC	120'@10'	14.8	1.39	0.39	0.10	53.6	0.48	<0.02	42.97	0.02	<0.1	<0.01	<0.01	0.01	0.02	98.07	95.65	QC, fossiliferous grey limestone
105	LS201	SC	240'@20'	15.0	0.69	0.18	0.07	55.0	0.68	<0.02	43.12	0.04	<0.1	<0.01	<0.01	0.01	<0.01	99.94	98.27	QC, fine-grained, grey limestone

Big Salt Lake Road occurrence

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Ce	La	Y	Sample description
106	3512	C	4.3'	<5	<0.1	589	6	57	-	-	-	-	-	-	-	-	-	-	-	QC, gs w/veins & dissem sulf
106	3513	C	1.1'	8	<0.1	878	6	35	-	-	-	-	-	-	-	-	-	-	-	QC, qz vein and gouge in ar
106	3758	C	0.6'	6	<0.1	363	5	30	-	-	-	-	-	-	-	-	-	-	-	QC, qz vein in gs
Black Lake occurrence																				
107	3514	Rep		8	0.5	119	12	193	-	-	-	-	-	-	-	-	-	-	-	QC, sulf in meta-volcanic br
107	3515	C	1.4'	<5	0.6	54	8	46	-	-	-	-	-	-	-	-	-	-	-	QC, qz-calc vein & fault gouge
108	3518	Rep		<5	<0.1	378	3	28	15	-	-	-	-	-	-	-	25	15	32	RC, pegmatite/br pipe

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total		Sample description
108	3518	Rep	-	70.9	11	5.05	1.95	0.67	1.73	1.7	1.48	4.86	0.14	0.05	0.06	0.29	98.09	-	RC, pegmatite/br pipe

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Ce	La	Y	Sample description
109	3516	S		42	1.3	4970	5	43	39	-	-	-	-	-	-	-	-	-	-	OC, msv py + limonite
109	3517	Rep		<5	<0.1	102	4	29	6	-	-	-	-	-	-	-	22	10	5	OC, pegmatite dike
												Pelegroso occurrence								
110	3531	Rep		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	TP, syenite
110	3532	S		<5	9	317	137	22	-	-	-	-	-	-	-	-	145	82	31	TP, sulf along fault surface
												Flagstaff Creek placer								
111	3660	PC	3.5 pans	55	<0.2	17	45	89	2	8	6	-	<20	370	3.32	121	-	-	-	pan concentrate
112	3661	PC	3.5 pans	4270	<0.2	7	27	75	<1	4	3	-	<20	240	1.52	108	-	-	-	pan concentrate
113	3662	PC	3.5 pans	30	<0.2	11	6	69	<1	8	5	-	<20	310	4.31	117	-	-	-	pan concentrate
113	3663	PL	0.1 yd^3	323	0.2	26	11	78	-	-	-	-	-	-	-	-	-	-	-	placer sample
114	3664	PC	3.5 pans	254	<0.2	8	5	56	<1	7	4	-	<20	320	2.26	142	-	-	-	pan concentrate
												Granite Mountain, east prospect								
115	3648	C	1.5'	2570	9.7	10	254	26	4	<20	<10	<200	<2	<100	1.2	890	<10	-	-	UW, qz vein in gd
115	3796	C	0.2'	671	4.4	19	166	7	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein in gd
115	3797	Rep		191	2.3	14	19	9	-	-	-	-	-	-	-	-	-	-	-	MD, qz vein in gd
												Upper Flagstaff prospect								

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
116	3622	G		1080	15.3	18	564	18	28	<20	<10	<200	<2	<100	1	830	<20	-	-	MD, representative of qz on dump
116	3623	G		4220	21.9	39	207	24	-	-	-	-	-	-	-	-	-	-	-	MD, qz taken from across dump
116	3624	G		295	6.4	25	174	13	-	-	-	-	-	-	-	-	-	-	-	MD, qz taken from across dump
116	3625	C	2.0'	260	1.5	12	13	15	49	5	2	5	2.5	-	-	-	2.2	-	-	TP, approximately 3' qz vein
116	3626	C	4.2'	2930	24.3	23	299	8	-	-	-	-	-	-	-	-	-	-	-	TP, small trench w/ qz vein
116	3627	G		301	3	9	76	12	-	-	-	-	-	-	-	-	-	-	-	MD, qz from probable ore pile

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
116	3628	G	1'-2'	71	13.3	86	69	54	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein up to 1'-2' thick
116	3649	RC		3070	29.4	26	294	12	-	-	-	-	-	-	-	-	-	-	-	MD, qz from millsite orepiles
116	3788	C	1.2'	1280	8.3	59	220	15	-	-	-	-	-	-	-	-	-	-	-	TP, qz in small stringers
116	3789	G		1850	12.7	13	717	15	84	<20	<10	<200	<2	<100	1.2	700	<20	-	-	MD, qz from orepile
116	3790	C	0.8'	80	1.1	10	18	53	-	-	-	-	-	-	-	-	-	-	-	UW, qz + fault gouge
116	3798	C	2.1'	535	5.8	110	37	16	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein & stringers
																				Flagstaff Mine
117	3652	C	0.8'	2085	14.2	8	4	4	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in gd
117	3653	C	2.8'	83	1	6	<2	7	2	5	<1	<5	<2	-	-	-	0.4	-	-	OC, qz vein; 0' to 2.8' thick
117	3654	C	0.25'	298	1.7	11	6	10	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein; outcrop in creek
117	3655	Rep	0.2'-0.5'	446	4.6	8	8	5	9	6	<1	<5	<2	-	-	-	3	-	-	RC, qz vein w/ minor sulf
117	3656	C	1.2'	691	6.3	18	38	8	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in gd
117	3657	Rep	0.7'	391	5.3	8	4	5	-	-	-	-	-	-	-	-	-	-	-	FL, qz vein w/ minor sulf
117	3658	C	0.2'	3211	25.7	11	123	6	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/ no sulf
117	3659	C	1.4'	533	7.3	5	2	6	4	14	5	-	<20	<20	1.68	439	-	-	-	OC, qz vein adjacent to mafic dike
																				Buckhorn prospect
118	3629	G		2280	8.6	26	15	5	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein in gd
118	3630	C	0.6'	437	2.3	11	4	5	<1	6	3	6	<2	-	-	-	2.9	-	-	UW, qz vein in shear zone
118	3631	Rep	0.5'-.25'	372	1.7	27	18	27	14	17	10	-	-	-	-	-	-	-	-	RC, .05'-.25' qz vein in shear
118	3791	Rep		358	3.2	12	9	6	3	<20	<10	<200	<2	<100	1	820	<20	-	-	MD, qz from ore pile
																				Granite Mountain, northwest prospect
119	3632	C	0.4'	47	0.6	4	5	7	9	<20	<10	<200	<2	<100	0.8	620	<20	-	-	TP, 3"-4.5" qz vein; no sulf
119	3633	Rep	0.8'	114	1.3	5	<2	5	-	-	-	-	-	-	-	-	-	-	-	MD, qz vein 10"-12" thick
119	3634	Rep		235	2.9	23	9	8	-	8	3	-	-	-	-	-	2.6	-	-	MD, qz near trench; no sulf
119	3635	Rep	0.5'	152	0.7	5	4	7	-	-	-	-	-	-	-	-	-	-	-	MD, up to 6" qz vein; no sulf
119	3792	Rep		234	1.4	5	5	7	-	-	-	-	-	-	-	-	-	-	-	MD, qz vein w/ fest
																				Lucky Jim prospect
120	3636	Rep		<5	<0.1	53	4	16	30	22	2	<5	<2	-	-	-	0.5	-	-	TP, qz in siliceous slate
120	3637	Rep		<5	<0.1	25	6	16	-	-	-	-	-	-	-	-	-	-	-	TP, silicified gd
120	3638	Rep		188	13.6	3819	6371	345	92	<20	<10	<200	<5	120	1.4	490	<20	-	-	MD, qz w/ sulf

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
120	3639	Rep	1.7'	150	2.3	82	370	12	-	-	-	-	-	-	-	-	-	-	-	TP, qz vein; fest
120	3640	C	1.0'	321	3	126	42	10	<1	5	<1	<5	<2	-	-	-	2.6	-	-	UW, qz in shear in gd
120	3641	C	1.3'	22	0.2	117	18	39	-	-	-	-	-	-	-	-	-	-	-	UW, qz stringers in sheared gd
120	3642	Rep		531	5	129	39	14	-	-	-	-	-	-	-	-	-	-	-	MD, qz from ore pile
120	3643	G		422	2.8	107	7	8	-	-	-	-	-	-	-	-	-	-	-	FL, qz near small trench/pit
120	3793	Rep		<5	0.3	32	4	14	-	-	-	-	-	-	-	-	-	-	-	FL, qz vein near slate/gd contact
120	3794	C	0.9'	259	8.9	1085	1427	34	120	<20	<10	<200	<2	<100	2	670	<20	-	-	OC, qz vein; minor fest
120	3795	Rep		69	25.1	1818	1444	131	98	7	2	-	-	-	-	-	-	-	-	TP, qz vein from dump
												Lucky Nell Mountain occurrence								
121	3553	S		154	0.7	45	20	105	-	-	-	-	-	-	-	-	-	-	-	OC, minor sulf in ar/slate
122	3554	Rep	0.6'	1.455*	74.6*	2459	1.15*	13082	-	-	-	<5	<2	-	-	-	<0.2	-	-	RC, qz vein in shear
122	3555	C	0.6'	2211	2.5*	53	1440	474	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in 7'-wide shear
122	3594	C	1.9'	8221	20.63*	754	6374	2292	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein + fault gouge
122	3595	Rep		112	2.5	180	181	500	-	-	-	-	-	-	-	-	-	-	-	OC, metavolcanics
122	3596	C	1.4'	8110	21.55*	1614	7539	4.72*	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/ sulf lenses
122	3597	C	1.2'	2989	14.03*	405	4978	1800	-	-	-	-	-	-	-	-	-	-	-	OC, shear with .5' qz vein
122	3598	C	0.5'	0.572*	39.08*	1082	8590	35	-	16	9	<5	9.5	-	-	-	<0.2	-	-	OC, qz vein w/ sulf
122	3599	Rep	1.1'	0.822*	33.68*	1007	2581	54	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in metavolcanics
122	3612	Rep	0.9'	6580	3.5*	168	743	2830	<5	<20	<10	<200	<18	<100	4.7	<360	<20	-	-	OC, qz vein; outcrop in streambed
122	3765	S	0.5'	1.055*	9.55*	1280	11.0*	6.69*	24	12	30	-	<20	<20	10	131	-	-	-	RC, .5' sulf band on qz vein margin
												Lucky Nell Mine								
123	3522	O	metallurgical sample (results will appear in future report)						-	-	-	-	-	-	-	-	-	-	-	MD, qz vein w/ sulf
												Upper Harris River reconnaissance								
124	3601	Rep	0.3'	466	19.4	1008	288	620	3	53	44	<200	160	<100	10	680	<20	-	-	FL, 0.3' qz vein w/ sulf
125	3602	G		307	10.7	2184	75	313	-	-	-	-	-	-	-	-	-	-	-	FL, qz vein w/ minor sulf
126	3603	G		58	1.3	455	16	539	-	-	-	-	-	-	-	-	-	-	-	FL, meta-sediments w/ sulf
												Upper Harris River prospect								
127	3613	S		44	0.6	27	16	74	3	<20	52	<200	<2	470	10	290	<20	-	-	OC, metavolcanics & clays w/ qz
127	3614	S		25	0.8	567	12	86	-	-	-	-	-	-	-	-	-	-	-	OC, metavolcanics w/ sulf lenses
127	3615	Rep		16	0.4	42	18	22	-	-	-	-	-	-	-	-	-	-	-	OC, altered metavolcanics w/ sulf

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
Sunny Day prospect																				
128	3556	C	3.9'	111	10.1	131	51	103	-	-	-	-	-	-	-	-	-	-	-	UW, gs; no evident mineralization
128	3557	C	3.2'	36	1.3	152	14	83	-	-	-	-	-	-	-	-	-	-	-	UW, gs; adit driven along fault
128	3558	G		174	20.7	4.02*	12	473	-	-	-	29	4	-	-	-	0.7	-	-	FL, po- & py-rich float; fest
128	3578	C	3.8'	30	2.1	2139	4	40	-	-	-	-	-	-	-	-	-	-	-	TP, porphyry w/ sulf lenses
128	3579	S		<5	<0.1	60	3	25	-	-	-	-	-	-	-	-	-	-	-	TP, limonite w/ ep in marble
128	3580	S		52	6	4761	10	62	<1	51	467	31	<2	-	-	-	6.6	-	-	MD, msv sulf; mainly py & po
128	3581	RC	4.0'	267	3.7	7331	13	121	-	22	270	-	-	-	-	-	-	-	-	TP, altered intrusive w/ sulf
128	3582	Rep	1.8'	750	11.3	19500	7	406	12	30	673	<200	<2	<100	10	<50	<20	-	-	TP, msv sulf in altered intrusive
128	3766	Rep	2.7'	213	2.1	31	696	136	-	-	-	-	-	-	-	-	-	-	-	OC, ls band w/ dissem sulf; fest
128	3767	C	1.3'	1158	19.4	188	6900	0.38*	-	-	-	-	-	-	-	-	-	-	-	UW, gs; sampled across shear
Baker Point prospect																				
129	3616	S		<5	<0.1	18	3	48	<2	<20	29	<200	<2	270	6.86	80	<20	-	-	OC, lenses of mag in metavolcanics
129	3617	S		12	<0.1	34	3	39	-	-	-	-	-	-	7.41	-	-	-	-	OC, lenses of mag in metavolcanics
130	3618	S		<5	<0.1	15	3	61	-	-	-	-	-	-	72.13	-	-	-	-	RC, select for mag;in metavolcanics
130	3619	C	3.0'	14	0.2	193	5	41	-	6	36	-	-	-	12.88	71	-	<5	5	OC, bands of mag in banded chert
131	3620	SS		20	<5	-	-	240	3	<20	56	<200	3	270	6.8	220	<20	-	-	stream sediment
131	3621	Rep		9	<0.1	51	4	52	<2	<20	25	<200	<2	180	8.2	160	<20	-	-	OC, dissem sulf in metavolcanics

Kina Peninsula reconnaissance

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Ce	La	Y	Sample description
132	3545	G		13	0.2	209	6	29	<1	5	14	-	-	-	-	-	14	11	12	OC, gd dike in gs

Clark Bay occurrence

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
133	3519	SS		<5	0.3	95	42	799	-	-	-	-	-	-	-	-	-	-	-	stream sediment
134	3520	C	3.2'	26	1.2	193	26	754	-	-	-	-	-	-	-	-	-	-	-	OC, qz lenses in black slate
134	3521	C	2.0'	<5	<0.1	35	17	67	-	-	-	-	-	-	-	-	-	-	-	OC, qz veins in black slate; fest

Maybeso Knob prospect

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
135	3585	Rep		11	0.6	105	11	268	-	-	-	-	-	-	-	-	-	-	-	OC, qz stringers in black slate

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Ce	La	Y	Sample description
135	3586	Rep		<5	0.6	94	34	524	7	46	7	<5	<2	-	-	-	-	-	-	OC, qz vein in black slate
										Crackerjack Creek placer										
136	3526	PL	0.1 yd^3	5098	11.5	159	69	590	-	-	-	-	-	-	-	-	-	-	-	placer sample
										Crackerjack Mine No. 1										
137	3537	G		202	10.9	1601	49	6.04*	-	-	-	-	-	-	-	-	-	-	-	MD, qz vein w/ sulf; minor fest
138	3754	Rep	0.2'-0.5'	217	4.7	101	382	1540	8	-	-	-	-	-	-	-	-	-	-	OC, qz vein; from shear in slate
138	3755	Rep	2'	162	3.7	48	335	707	-	-	-	-	-	-	-	-	-	-	-	OC, qz + qz/slate br vein
										Crackerjack Mine No. 3										
139	3763	C	0.6'	0.356*	15.9	138	461	210	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein & dike in intrusive
										Crackerjack Mine No. 4										
140	3608	C	1.7'	523	4.2	77	64	457	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein & stringers in slate
140	3609	C	0.7'	12	0.7	37	10	413	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein + black slate
140	3780	C	1.2'	0.342*	16	180	1887	2302	<1	15	3	-	-	-	-	-	-	-	-	UW, qz vein; in stope to surface
140	3781	C	1.2'	8	0.3	16	11	295	-	-	-	-	-	-	-	-	-	-	-	UW, qz lenses + black slate
140	3782	C	0.7'	28	0.5	15	11	259	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein in black slate
										Crackerjack Mine No. 6										
141	3533	C	2.0'	1686	2.41*	167	1210	1093	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein hosted by diabase dike
141	3534	C	0.6'	1.265*	2.53*	250	461	2219	-	-	-	-	-	-	-	-	-	-	-	UW, qz stringers in black slate
141	3535	C	2.4'	0.869*	1.9*	226	2371	2719	-	-	-	-	-	-	-	-	-	-	-	UW, qz veins in black slate
141	3536	C	1.6'	7171	34.1	195	621	1676	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein, black slate, dike
141	3539	CC	1.2'	1.801*	39	194	1957	3360	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein in black slate
141	3540	C	1.1'	6378	1.67*	219	4495	1772	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
141	3541	C	0.8'	3578	4.3	52	32	101	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein in black slate
141	3542	C	3.0'	1195	2.31*	359	263	485	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein adjacent diabase dike
141	3543	C	4.7'	350	3.5	39	29	61	-	-	-	-	-	-	-	-	-	-	-	UW, diabase dike w/ dissem sulf
141	3544	C	1.7'	6168	11.7	141	169	422	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein in black slate
141	3559	C	0.7'	191	15.2*	955	725	1955	-	-	-	-	-	-	-	-	-	-	-	UW, vein @ intersection of 2 faults
141	3560	C	3.2'	5933	2.91*	1282	330	313	<1	11	4	-	<20	20	1.27	465	-	-	-	UW, qz/slate br vein; along dike hw

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Ce	La	Y	Sample description
141	3561	C	2.4'	331	20.6	118	232	761	-	-	-	19	3.4	-	-	-	-	-	-	UW, qz vein & qz stringers in slate
141	3562	C	2.6'	61	3.7	119	18	456	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein & qz stringers in slate
141	3610	C	3.2'	6320	20.4	83	228	1057	9	45	13	7	<2	-	-	-	-	-	-	OC, qz vein, stringers, br in slate
141	3611	C	5.2'	8930	11.3	82	117	559	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein, stringers, br in slate
141	3768	C	0.7'	0.501*	21.6	390	896	928	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein; along dike hw
141	3769	C	0.9'	904	9	99	1097	965	-	-	-	-	-	-	-	-	-	-	-	UW, qz veinlets in mafic dike
141	3770	C	0.8'	3772	1.64*	1919	237	2372	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein; hw=slate, fw=dike
141	3772	C	2.3'	544	30.2	64	1746	604	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein; hw=slate, fw=dike
141	3773	C	1.0'	0.262*	4.66*	272	655	264	-	-	-	-	-	-	-	-	-	-	-	UW, qz lenses/pods in mafic dike
141	3774	C	1.4'	1310	1.6	38	61	179	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein; along dike hw
141	3783	C	2.0'	0.348*	43.69*	2400	1984	1587	15	27	5	<5	6.8	-	-	-	-	-	-	UW, qz vein; hw=slate, fw=dike
141	3784	C	2.0'	3690	43.6	92	165	209	8	30	4	<5	<2	-	-	-	-	-	-	UW, qz vein + black slate
141	3785	C	1.5'	1.535*	10.4*	509	1001	609	14	<20	<10	<200	<2	<100	0.6	530	<10	-	-	UW, qz vein/veinlets in black slate
141	3786	C	1.8'	953	11	30	70	204	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein; hw=slate, fw=dike
														Puyallup Mine No. 3						
142	3503	C	0.6'	2138	4.2	151	411	1028	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein; parallel fault
142	3504	C	0.4'	3023	9.7	297	310	430	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein + faulted metavolcanic
142	3752	C	0.4'	1997	2.6	97	16	30	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein; along fault
142	3753	C	0.4'	0.57*	28.8	201	448	1076	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein; along fault
														Puyallup Mine No. 4						
143	3523	G		554	0.2	19	51	46	-	-	-	-	-	-	-	-	-	-	-	MD, qz, chl sc, gs; adit dump(?)
														Cascade prospect						
144	3548	C	1.7'	778	3	37	61	55	<1	2	8	-	<20	350	1.99	160	-	-	-	OC, qz vein & qz br vein
144	3549	C	0.3'	20	0.2	14	23	21	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/ minor py
144	3550	G	1'	2106	5.2	14	115	63	-	-	-	<5	4.1	-	-	-	-	-	-	MD, up to 1' qz vein; fest common
144	3551	C	2.1'	8590	15.2	391	1705	214	-	-	-	-	-	-	-	-	-	-	-	OC, qz veins & veinlets in shear
144	3552	C	0.8'	1.299*	1.17*	314	512	173	-	-	-	-	-	-	-	-	-	-	-	UW, qz veins hosted by shear
144	3644	Rep		98	3	19	127	19	<1	9	4	-	-	-	-	-	-	-	-	FL, qz vein & qz br
144	3645	Rep		193	6.3	12	40	28	6	6	<1	-	-	-	-	-	-	-	-	OC, qz vein; in intermed. intrusive
144	3646	G		5.388*	2.15*	81	144	50	-	-	-	-	-	-	-	-	-	-	-	MD, qz; near trench; small sample
144	3647	RC		0.798*	31.6	79	302	1597	7	8	3	<5	4.8	-	-	-	-	-	-	MD, qz from ore pile; minor sulf
144	3764	C	0.6'	0.724*	4.97*	570	2241	1359	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/ py & minor gn

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Ce	La	Y	Sample description
Kina Cove reconnaissance																				
145	3547	G		<5	<0.1	50	3	5	-	-	-	-	-	-	-	-	-	-	-	FL, fest qz vein w/ minor sulf
146	3546	Rep	0.2'	8	<0.1	57	6	42	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/ py; in metavolcanics
Klawock-Hollis Road occurrence																				
147	3524	Rep		124	0.7	52	19	144	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in gs; dissem py in gs
147	3525	Rep		7	0.6	133	9	882	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in black slate
Harris River placer																				
148	3576	PL	0.1 yd^3	1663	6.3	37	21	201	-	-	-	-	-	-	-	-	-	-	-	placer sample
149	3577	PL	0.1 yd^3	1546	<0.1	68	19	127	-	-	-	-	-	-	-	-	-	-	-	placer sample
Shelton prospect																				
150	3538	SS		16	<0.2	89	45	195	<1	37	20	-	<20	500	4.45	127	-	-	-	stream sediment
151	3583	C	3.2'	7	3.3	6810	8	27	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/ sulf
151	3584	G		13	2.6	6540	3	24	3	<20	22	<200	<2	<100	1.9	420	<10	-	-	FL, qz w/ py, cpy, ml

Luscumbe Iron prospect

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	V	Pt	Pd	Sample description
152	3604	SC	19' @ 1'	17	0.5	43	6	63	-	47	56	-	-	-	11.56	82	614	<5	<1	OC, mag in amphibole-qz intrusive
152	3777	SC	23' @ 1'	9	0.2	42	19	55	-	-	-	-	-	-	17.92	-	-	-	-	OC, mag lenses in ultramafic
153	3605	G		53	0.7	174	7	51	-	-	-	-	-	-	-	-	-	-	-	FL, dissem py in meta-volcanic
153	3606	Rep	10'	10	0.4	16	5	58	-	90	84	-	-	-	18.81	118	-	-	-	OC, mag in ultramafic
153	3607	SC	24' @ 1'	<5	0.5	14	11	60	-	-	-	-	-	-	18.97	-	-	-	-	OC, mag-bearing ultramafic
153	3778	C	2'	8	<0.1	9	4	33	-	186	149	-	-	-	65.01	164	0.281*	<5	<1	OC, mag lens in ultramafic
153	3779	SC	6.5' @ 1'	<5	<0.1	12	5	33	-	-	-	-	-	-	14.41	-	-	-	-	OC, mag-bearing ultramafic
Big Harbor Mine																				
154	3600	S		521	2.34*	11.71*	111	12095	-	-	-	-	-	80	-	-	-	-	-	UW, msv sulf; in silicic volcanic

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ti	Fe	Cr	V	Pt	Pd	Sample description
Cable Creek prospect																				
155	3565	S		19	0.3	34	6	84	-	-	-	-	-	-	-	-	-	-	-	OC, chl sc w/minor sulf
155	3566	S		6	0.2	36	6	12	<1	12	37	-	<20	90	9.59	81	-	-	-	FL, sericite-chl sc
155	3567	C	3.0'	<5	0.3	7	<2	5	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in siliceous sericite sc
155	3568	SC	12' @ 5'	<5	<0.1	4	<2	11	<1	2	2	-	<20	<20	0.34	174	-	-	-	OC, sericite sc w/ qz veins/lenses
155	3775	SC	8.5' @ 1'	113	1.1	23	11	14	-	-	-	-	-	-	-	-	-	-	-	OC, sericite sc w/ py bands
155	3776	S		8	<0.1	27	8	12	-	-	-	-	-	-	-	-	-	-	-	OC, sericite sc w/ minor sulf
156	3563	Rep		7	0.6	9	6	32	-	-	-	-	-	-	-	-	-	-	-	FL, qz-chl sc or gs
157	3564	G		<5	0.4	11	4	42	-	-	-	-	-	-	-	-	-	-	-	FL, chl sc & gs
158	3527	SC	18' @ 1'	<5	<0.1	51	5	47	-	-	-	-	-	-	-	-	-	-	-	OC, chl-sericite sc w/dissem sulf
158	3528	C	4.8'	<5	0.1	8	6	42	-	-	-	-	-	<20	-	-	-	-	-	OC, chl sc w/bands dissem sulf
158	3759	C	2.5'	<5	<0.1	9	6	175	-	-	-	-	-	-	-	-	-	-	-	OC, mineralized body of chl sc
158	3760	C	5.0'	<5	<0.1	26	4	193	-	-	-	-	-	-	-	-	-	-	-	OC, chl sc w/dissem sulf
Cable Creek occurrence																				
159	3501	C	2.6'	22	<0.1	25	6	17	-	-	-	-	-	-	-	-	-	-	-	OC, talc-chl sc w/sulf
159	3502	S		790	11.6	2.55*	8	10076	9	13	15	-	-	110	-	-	-	-	-	RC, msv sulf in sc
159	3751	SC	7' @ 5'	24	<0.1	61	7	41	-	-	-	-	-	-	-	-	-	-	-	OC, talc-chl sc w/ sulf
Cable Creek reconnaissance																				
160	3511	C	1.3'	7	<0.1	32	6	147	-	-	-	-	-	-	-	-	-	-	-	OC, talc-chl sc w/ dissem py
161	3510	SS		12	0.2	45	15	137	-	-	-	-	-	-	-	-	-	-	-	stream sediment
162	3509	SS		18	0.4	53	23	170	-	-	-	-	-	-	-	-	-	-	-	stream sediment
Dolly Varden prospect																				
163	3507	C	2.1'	<5	0.2	104	7	26	-	-	-	-	-	-	-	-	-	-	-	UW, grey marble + fault gouge
163	3508	C	2.2'	<5	<0.1	12	4	18	-	-	-	-	-	-	-	-	-	-	-	UW, siliceous marble w/ minor sulf
163	3756	C	0.5'	21	0.6	339	12	41	-	-	-	-	-	-	-	-	-	-	-	UW, marble + clay minerals
163	3757	C	1.0'	20	7.6	1329	7	168	5	18	3	-	<2	-	-	-	-	-	-	UW, marble w/ minor ml
Khayyam Mine																				
164	3593	S		2460	2.12*	4.88*	15	5.72*	-	-	-	-	-	-	-	-	-	-	-	MD, msv sulf; mainly py
164	3650	Rep		179	0.3	68	10	10	-	-	-	-	-	-	-	-	-	-	-	OC, qz lens; crosscuts msv sulf

Table A-2.--Selected analytical results, Craig subarea. Map numbers refer to figure 4, section B.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
Khayyam Mine																				
164	3651	G		0.392*	4.8	69	3	38	-	-	-	-	-	-	-	-	-	-	-	RC, qz block w/ very minor py
Sultana prospect																				
165	3572	Rep		<5	<0.1	126	4	17	-	-	-	-	-	-	-	-	-	-	-	OC, msv garnet w/ ep + sulf lenses
165	3573	Rep	4.3'	<5	<0.1	41	5	30	-	-	-	-	-	-	-	-	-	-	-	UW, garnet, calc, ep w/ minor sulf
165	3574	C	4.4'	6	1	1201	5	54	<2	120	220	<200	<2	140	10	130	<20	-	-	UW, lens of sulf w/ calc & garnet
165	3575	Rep	8.5'	<5	0.3	1131	5	34	-	-	-	-	-	-	-	-	-	-	-	OC, skarn material w/ py & po
166	3569	S		<5	1.7	156	20	134	-	-	-	-	-	-	-	-	-	-	-	OC, limonite lens; some sulf & qz
166	3570	C	4.8'	<5	0.8	149	10	86	-	-	-	-	-	-	-	-	-	-	-	OC, siliceous marble w/ dissem sulf
166	3571	Rep		<5	0.7	183	7	30	5	20	19	<5	<2	-	-	-	0.5	-	-	OC, siliceous marble w/ dissem sulf
Deer Bay occurrence																				
167	3529	C	2.2'	449	8.4	1466	55	3400	-	-	-	-	-	600	-	-	-	-	-	OC, sericite sc w/ bands of sulf
167	3530	C	1.7'	172	4.9	1722	18	179	-	-	-	-	-	-	-	-	-	-	-	OC, sericite sc w/sulf bands
167	3761	C	1.5'	107	5	4600	9	178	-	-	-	-	-	-	-	-	-	-	-	OC, chl-mica sc
167	3762	C	1.7'	334	4.1	506	16	353	-	-	-	-	-	-	-	-	-	-	-	OC, chl sc w/ minor qz, talc

Table A-3.--Selected analytical results, Dall Island subarea. Map numbers refer to figure 4, section C.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
										Shellhouse prospect										
168	4462	S	2'	<5	<0.1	83	3	10	15	24	11	<5	-	-	-	-	-	-	-	OC, skarn, py to 5%
168	4472	Rep	12'	<5	<0.1	140	<2	33	13	42	29	13	-	-	-	-	-	-	-	OC, br calc-silicate hn
168	4473	SS		<5	<0.2	45	5	28	5	6	18	-	<20	860	3.17	14	-	-	-	silt, clay, gravel, no org
169	4471	S		44	2.1	9653	5	65	10	47	504	26	-	-	-	-	-	-	-	MD, skarn, min w/cp, tr mo
169	4474	Rep	6'	<5	<0.1	92	<2	11	9	19	7	5	-	-	-	-	-	-	-	OC, calc-silicate skarn
169	4475	Rep	4'	<5	<0.1	243	3	16	100	17	49	6	-	-	-	-	-	-	-	OC, calc-silicate, py/po
170	4470	Rep	25'	<5	<0.1	133	<2	12	29	13	18	7	-	-	-	-	-	-	-	OC, altered granodiorite
										American Bay										
171	4430	SS		<5	<0.2	18	8	94	1	46	25	-	<20	320	4.71	141	-	-	-	silt, clay, gravel
173	4432	SS		<5	<0.2	37	6	92	<1	37	6	-	<20	130	4.43	82	-	-	-	silt, clay, 10% gravel
173	4433	SS		<5	<0.2	22	9	61	<1	13	11	-	<20	260	2.15	25	-	-	-	silt, clay
173	4434	SS		<5	<0.2	26	9	60	1	31	14	-	<20	260	3.46	69	-	-	-	silt, clay, 10% gravel
173	4435	SS		<5	<0.2	18	8	57	<1	19	10	-	<20	160	2.98	45	-	-	-	silt, clay
174	4431	SS		<5	<0.2	49	5	74	3	43	20	-	<20	300	5.04	101	-	-	-	silt, clay

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
172	LS101	SC	200' @10'	15.6	7.98	1.86	1.32	47.3	3.07	0.08	38.86	0.14	0.37	0.02	0.04	0.02	0.1	99.43	84.43	OC, foliated, marble w/micaceous beds

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
										Datzkoo Harbor occurrence										
175	4412	Rep	15'	77	0.7	40	42	54	-	3	<1	-	-	550	-	-	-	-	-	OC, qz-sericite sc/chl sc
175	4426	C	2'	12	0.3	4	12	15	-	18	2	-	-	1900	-	-	-	-	-	OC, meta-rhyolite w/sulf
176	4413	S	2'x 2'	241	1.6	84	78	116	-	6	<1	-	-	1200	-	-	-	-	-	FL, silicified rhyolitic tuff
176	4427	SS		<5	<0.2	65	20	494	5	72	27	-	<20	1200	5.77	159	-	-	-	sand, silt, clay
176	4428	SS		<5	<0.2	56	26	426	3	57	21	-	<20	1300	5.49	28	-	-	-	silt, clay
177	4414	S	1.5'	9	<0.1	10	14	56	-	12	<1	-	-	810	-	-	-	-	-	FL, qz-mica sc w/ar, pl
178	4415	S	2'	<5	0.4	135	9	143	-	85	21	-	-	710	-	-	-	-	-	FL, silicified gp pl, sulf
178	4416	S	1.5'	14	0.7	60	36	27	-	13	6	-	-	13100	-	-	-	-	-	FL, qz-mica sc w/sulf

Table A-3.--Selected analytical results, Dall Island subarea. Map numbers refer to figure 4, section C.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Te	Pt	Pd	Sample description
178	4429	S		14	0.5	75	19	53	-	19	9	-	-	500	-	-	-	-	-	OC, meta-sed, chl sc w/qz stringers
											Little Daykoo Creek									
179	4425	PL	0.1 yd³	824	0.2	25	15	131	-	-	-	-	-	-	-	-	-	-	-	silt, clay, shallow gradient
180	4409	PC	2 pans	190	<0.2	22	12	90	2	28	22	-	<20	540	>10	192	-	-	-	mixed sed, few vf flakes
180	4410	MM		74	<0.2	28	14	168	4	27	15	-	<20	510	4.55	63	-	-	-	silt/clay
180	4411	PC	2 pans	314	<0.2	19	11	90	2	29	23	-	<20	430	>10	209	-	-	-	sand, silt, clay, mag present
180	4424	MM		591	<0.2	18	44	118	2	23	19	-	<20	500	8.32	64	-	-	-	silt, clay
											McLeod Bay prospect (Elk claims)									
181	4422	Rep	15'-20'	13	0.1	47	34	378	-	-	-	-	-	-	-	-	-	-	-	OC, silicified gw sc, py/po
182	4408	S	2'	2.22*	9.39*	13847	8953	1058	-	-	-	-	-	-	-	-	-	-	-	OC, qz-vein br, cp, gl
182	4423	S	2'	438	2.6	61	12	30	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein, py, tr cp
183	4406	C	2.5'	361	1.4	4	6	39	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/chl partings
183	4407	S	2'	1154	4.1	4	8	34	-	-	-	-	-	-	-	-	-	-	-	FL, qz vein w/up to 15% sulf
											Sukkwan Island occurrence									
Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Ce	La	Y	Sample description
184	4461	SS		<5	<0.2	5	9	32	6	7	7	-	<20	510	3.77	13	82	46	14	sand, silt, clay
185	4469	Rep	25'	<5	<0.1	15	<2	8	7	15	25	-	-	540	-	-	-	-	-	OC, silicified tuff, qz-mica sc
186	4460	S		-	-	-	-	-	-	-	-	-	-	-	-	-	73	40	-	OC, syenite pegmatite
186	4468	SS		<5	<0.2	5	6	34	4	4	18	-	<20	340	4.79	10	134	71.7	30	sand, silt, clay, high water
187	4466	Rep	15'	<5	<0.2	3	6	41	2	1	<1	-	<20	<20	2.29	61	73	38.8	24	OC, syenite, qz, feldspar
187	4467	Rep	1.5'	<5	<0.2	4	17	138	2	1	<1	-	<20	90	2.98	58	170	100	53	OC, xcutting syenite dike
											LI Group									
188	4417	C	6'	13	0.5	385	66	380	4	26	21	-	-	240	-	-	-	-	-	OC, chl pl w/qz clot, cp
188	4418	C	6'	23	0.4	292	26	189	14	28	24	-	-	380	-	-	-	-	-	OC, qz-chl sc, tr py, cp
188	4419	C	6'	104	31.4	3089	0.82*	2.32*	-	25	13	-	-	110	-	-	-	-	-	OC, stratiform qz w/in chl pl
188	4420	C	6'	48	5.1	2266	2579	7164	11	21	21	-	-	490	-	-	-	-	-	OC, chl pl, minor concordant qz
188	4436	C	6'	<5	<0.1	86	8	125	3	30	23	-	-	1200	-	-	-	-	-	OC, chl sc w/qz veinlets

Table A-3.--Selected analytical results, Dall Island subarea. Map numbers refer to figure 4, section C.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	Sn	W	Ba	Fe	Cr	Ce	La	Y	Sample description
188	4437	C	6'	20	0.2	111	24	87	4	51	25	-	-	1000	-	-	-	-	-	OC, chl-qz-sericite sc
188	4438	C	6'	19	0.5	140	30	93	5	32	13	-	-	380	-	-	-	-	-	OC, qz-sericite-chl sc
188	4439	C	6'	31	0.6	133	34	83	13	21	15	-	-	290	-	-	-	-	-	OC, chl-qz-sericite sc
188	4440	C	6'	34	0.4	120	15	170	4	41	31	-	-	360	-	-	-	-	-	OC, chl-qz sc
188	4441	C	6'	22	0.2	211	25	264	4	39	32	-	-	550	-	-	-	-	-	OC, qz-chl sc
188	4442	C	6'	<5	0.3	107	30	156	4	58	30	-	-	910	-	-	-	-	-	OC, chl-qz pl
188	4443	C	6'	311	4.5	698	147	169	19	27	20	-	-	720	-	-	-	-	-	OC, qz-chl pl, vein w/cp
188	4444	C	4'	614	2.79*	9600	3.62*	8.41*	33	25	10	-	-	<20	-	-	-	-	-	OC, high-grade material
188	4445	S	2.25'	967	28	3296	1899	3197	143	22	12	-	-	110	-	-	-	-	-	OC, qz vein, boudinaged
188	4446	C	6'	60	2.6	415	342	535	7	45	25	-	-	340	-	-	-	-	-	OC, qz-chl sc w/minor sulf
188	4447	S	1'	754	3.9	403	144	115	28	42	16	-	-	20	-	-	-	-	-	OC, qz vein w/msv py
188	4451	C	6'	17	0.6	208	27	200	6	24	29	-	-	670	-	-	-	-	-	OC, chl-qz sc, py
189	4448	Rep	4'	27	1.3	116	465	1103	9	25	12	-	-	140	-	-	-	-	-	OC, gray qz w/py ar, marble
189	4452	C	1.5'	<5	0.3	110	15	157	22	70	56	-	-	1300	-	-	-	-	-	OC, chl-qz sc w/qz pods
189	4453	C	2'	19	6.2	115	3141	8171	7	39	10	-	-	510	-	-	-	-	-	OC, qz zone w/in felsic pl
189	4454	S		<5	0.5	134	43	467	12	59	8	-	-	1000	-	-	-	-	-	OC, silicified ar, qz-rich
Jumbo Mine																				
190	4614	Rep	4.5'	296	1	2612	5	40	240	13	9	<5	2.6	-	-	-	-	-	-	UW, skarn, cp in lenses
190	4615	Rep	8'	613	1.8	4057	4	64	47	14	13	<5	2.3	-	-	-	-	-	-	UW, skarn, cp, ep, calc
190	4616	Rep	10'	705	5.9	12242	4	115	1322	26	35	7	15	-	-	-	-	-	-	UW, skarn, cp, py to 40%
190	4617	Rep	3.5'	4526	9.5	16043	4	248	31	72	27	17	18	-	-	-	-	-	-	UW, skarn, cp to 5%, tr mo
190	4618	Rep	10'	427	1	3200	3	49	138	38	28	<5	<2	-	-	-	-	-	-	UW, skarn, py to 3%
190	4619	Rep	10'	1069	3.7	8728	6	80	250	29	18	12	<2	-	-	-	-	-	-	UW, skarn, cp to 5%
190	4640	Rep	10'	676	8	15517	4	92	560	26	17	<5	4.1	-	-	-	-	-	-	UW, skarn, hn, cp, mo
190	4641	Rep	10'	1224	14.6	2.8*	3	373	30	59	71	17	<2	-	-	-	-	-	-	TP, skarn, hn, cp clots
190	4642	S		2340	32.9	6.9*	7	266	4.57*	46	71	30	16	-	-	-	-	-	-	TP, mo-cp skarn, mo to 25%
Shipwreck Point																				
191	4459	Rep	5'	<5	<0.1	92	24	81	-	-	-	-	-	-	-	-	-	-	-	OC, qz-mica sc, w/mm scale folds
192	4465	Rep	10'	8	<0.1	60	6	68	-	-	-	-	-	-	-	-	-	-	-	OC, silicified ar, green pl
193	4450	C	1.7'	<5	0.3	450	10	69	-	-	-	-	-	-	-	-	-	-	-	OC, silicified chl sc
194	4449	C	1'	7	<0.1	162	16	114	-	-	-	-	-	-	-	-	-	-	-	OC, chl qz sc w/qz stringers
194	4458	S		<5	0.3	124	41	354	-	-	-	-	-	-	-	-	-	-	-	OC, chl-qz sc in shear zone
195	4455	C	2'	<5	<0.1	41	12	76	-	-	-	-	-	-	-	-	-	-	-	OC, gs, meta-volc
195	4457	SC	6' @ .5'	<5	<0.1	50	3	63	-	-	-	-	-	-	-	-	-	-	-	OC, meta-mafic dike

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
Divide Head area, reconnaissance																				
196	5341	Rep	2.0'	<5	<0.1	6	8	12	-	-	-	-	-	-	-	-	-	-	-	OC, qz-calc stringer zone in marble
197	5780	G		<5	<0.1	8	5	10	10	-	-	-	-	-	-	-	-	-	-	OC, ls w/oxidized carbonate veins
198	5335	C	0.4'	<5	<0.1	13	4	35	-	-	-	-	-	-	-	-	-	-	-	OC, qz stringer
199	5334	C	0.6'	<5	<0.1	17	3	45	-	-	-	-	-	-	-	-	-	-	-	OC, qz stringer
200	5342	Rep	0.5'	<5	<0.1	18	7	32	-	-	-	-	-	-	-	-	-	-	-	RC, fest qz-calc stringers
201	5338	Rep	7.0'	<5	<0.1	15	4	34	-	-	-	-	-	-	-	-	-	-	-	RC, qz lens
202	5337	Rep	1.5'	<5	<0.1	6	70	19	-	-	-	-	-	-	-	-	-	-	-	OC, qz-calc vein w/ml
202	5781	C	0.7'	<5	<0.1	7	<2	3	8	-	-	-	-	-	-	-	-	-	-	OC, qz vein in tan marble
Divide Head occurrence																				
203	5785	C	3.0'	123	3.5	3345	8	376	9	-	-	-	-	-	-	-	-	-	-	OC, sulf zone
Divide Head area, reconnaissance																				
204	5784	S		<5	<0.1	138	7	97	6	-	-	-	-	-	-	-	-	-	-	TP, sheared gs w/sparse py
205	5786	S	0.7'	<5	0.3	71	19	124	7	-	-	-	-	-	-	-	-	-	-	TP, py-calc vein in sheared marble
206	5339	Rep	5.0'	<5	<0.1	4	12	49	-	-	-	-	-	-	-	-	-	-	-	RC, qz lens
207	5338	Rep	7.0'	<5	<0.1	15	4	34	-	-	-	-	-	-	-	-	-	-	-	RC, qz lens
207	5782	Rep	0.5'	<5	<0.1	6	<2	5	8	-	-	-	-	-	-	-	-	-	-	OC, qz lens
208	5831	Rep	2.0'	<5	<0.1	78	3	74	2	-	-	-	-	-	-	-	-	-	-	OC, gs w/qz & py
209	5829	S		54	0.6	119	22	46	23	-	-	-	-	-	-	-	-	-	-	RC, gs w/sulf bands & qz
210	5830	G		<5	<0.1	55	5	58	5	-	-	-	-	-	-	-	-	-	-	TP, gs w/qz, calc & py
211	5828	Rep	7.0'	<5	<0.1	61	4	59	11	-	-	-	-	-	-	-	-	-	-	OC, sc w/qz & py
212	5827	Rep	2.0'	13	<0.1	18	10	53	21	-	-	-	-	-	-	-	-	-	-	OC, grey sc w/banded py & qz
213	5826	G		14	<0.1	70	4	69	3	-	-	-	-	-	-	-	-	-	-	FL, gs w/gn veinlet
Divide Head, south occurrence																				
214	5825	G		<5	0.4	1586	4	34	2	-	-	-	-	-	-	-	-	-	-	OC, brown, msv intrusive w/cp & py

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
Divide Head area, reconnaissance																				
215	5340	Rep	3.0'	<5	0.2	96	42	13	-	-	-	-	-	-	-	-	-	-	-	RC, qz lens
216	5806	Rep	3.0'	<5	<0.1	5	15	86	-	-	-	-	-	-	-	-	-	-	-	OC, medium grained hnbd di

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	Ho	Ce	Nd	Pr	Er	Gd	Sample description
216	5806	Rep	3.0'	0.91	12	4.8	1.6	2.7	8.5	11	1.9	0.8	11	3.1	28	12	5	10	6	OC, medium-grained hnbd di
217	5807	Rep	2.0'	23.6	0.9	0.7	0.31	2.2	6.5	2.3	<0.5	0.7	2.6	0.7	14	8	<15	<4	<7	OC, green inrusive w clots & dissem py

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
218	5783	C	3.0'	<5	<0.1	13	16	13	8	-	-	-	-	-	-	-	-	-	-	OC, qz-carbonate vein
219	5366	Rep	7.0'	<5	<0.1	7	9	100	9	-	-	-	-	-	-	-	-	-	-	OC, feldspar, hnbd pegmatite
220	5388	Rep	0.8'	<5	<0.1	11	3	56	4	-	-	-	-	-	-	-	-	-	-	OC, lithic tuff w/py
221	5364	G		<5	<0.1	7	6	96	3	-	-	-	-	-	-	-	-	-	-	RC, syenite w/fine, dissem sulf
222	5387	Rep	0.5'	8	<0.1	42	6	74	4	-	-	-	-	-	-	-	-	-	-	RC, mafic volcanics w/ dissem py
223	5805	Rep	2.0'	<5	<0.1	6	68	398	-	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/hnbd
224	5365	Rep	4.0'	<5	1	76	41	433	9	-	-	-	-	-	-	-	-	-	-	OC, silicified rock along shear zone

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	Ho	Ce	Nd	Pr	Er	Gd	Sample description
223	5805	Rep	2.0'	0.77	57	28	7.8	18	97	60	8.4	2.3	59	15	206	78	19	51	22	OC, monzonite w/hnbd
224	5365	Rep	4.0'	2.5	9.4	5.4	3.3	11	31.5	21	2.4	2.5	26.4	5.6	120	38	10	16	11	OC, silicified rock along shear zone

Dora Lake, west occurrence

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
225	5333	Rep	0.1'	<5	<0.1	190	7	16	-	-	-	-	-	-	-	-	-	-	-	OC, K-spar eudialyte vein
226	5332	Rep	0.1'	<5	<0.1	4	42	85	-	-	-	-	-	-	-	-	-	-	-	OC, eudialyte, K-spar riebeckite veinlets

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	Mo	Ce	Nd	Pr	Er	Gd	Sample description
225	5333	Rep	0.1'	0.55	3.1	1.3	3.28	11.3	37.7	22.4	5.3	2.8	30	8	86	48	11	24	21	OC, K-spar eudialyte vein
226	5332	Rep	0.1'	0.28	10.7	6.8	37	100	400	286	51	27.6	326	96.6	808	400	97	290	200	OC, eudialyte, K-spar riebeckite veinlets

Dora Lake, reconnaissance

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
227	5354	C	0.6'	<5	<0.1	17	8	94	-	-	-	-	-	-	-	-	-	-	-	OC, sericite sc w/qz band
227	5795	Rep	2.0'	<5	<0.1	15	5	107	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/qz blebs & dissem py

Lady of the Lake prospect

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
228	5380	C	7.0'	3716	4.1	131	3366	10256	-	-	-	-	-	-	-	-	-	-	-	OC, qz w/py, sl and gn
228	5381	C	4.0'	3535	4.3	292	8021	17374	2	-	-	-	-	-	-	-	-	-	-	OC, qz w/py, sl, cp & gn
228	5382	C	7.0'	6488	8.5	537	1.14*	9.20*	2	16	250	-	80	27	1227	13	0.597	-	-	OC, qz w/py, sl, cp & gn
228	5383	Rep	1.0'	1356	4.6	342	6580	6.68*	3	-	-	-	-	-	-	-	-	-	-	OC, qz w/py, cp, sl & gn
228	5384	Rep	3.5'	146	0.6	56	622	1317	-	-	-	-	-	-	-	-	-	-	-	OC, qz w/py, gn & sl
228	5385	SC	9.0' a.25	166	0.7	52	859	896	-	-	-	-	-	-	-	-	-	-	-	OC, qz-sc w/py, cp, sl & gn
228	5386	SC	4.5' a.25	75	0.3	40	397	265	-	-	-	-	-	-	-	-	-	-	-	OC, qz sc w/py, sl, gn
228	5818	C	7.1'	18	<0.1	248	8	19	2	-	-	-	-	-	-	-	-	-	-	OC, qz lens interbedded w/sc
228	5819	C	5.7'	40	2	1133	21	3.67*	-	-	-	-	-	-	-	-	-	-	-	OC, qz interbedded w/sc & sulf
228	5820	SC	4.0' a.25	56	1.4	98	1.33*	5.17*	-	-	-	-	-	-	-	-	-	-	-	OC, qz interbedded w/sc & sulf
228	5821	C	5.0'	302	9.7	2687	1.37*	9.01*	-	-	-	-	-	-	-	-	-	-	-	OC, qz interbedded w/sc & sulf
228	5822	C	4.8'	258	1.6	22	2700	276	-	-	-	-	-	-	-	-	-	-	-	OC, qz lens w/mineralization
228	5823	Rep	7.0'	7682	5.7	144	7721	4800	-	-	-	-	-	-	-	-	-	-	-	OC, qz w/py & gn
228	5824	S		0.34	0.4	18	2.06*	14.38*	-	-	-	-	-	-	-	-	-	-	-	RC, qz w/sulf

Dora Lake, west side occurrence

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
229	5353	Rep	8.0'	<5	<0.1	86	7	53	-	-	-	-	-	-	-	-	-	-	-	OC, pl w/15% qz stringers
230	5352	G		63	0.2	35	50	786	-	-	-	-	-	-	-	-	-	-	-	OC, qz-marble zone w/dissem py

Dora Lake occurrence (borrow pit)

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
231	5343	C	8.0'	<5	<0.1	102	10	74	-	-	-	-	-	-	-	-	-	-	-	OC, gs w/20% qz-calc stringers
231	5344	C	9.0'	7	0.3	93	24	94	-	-	-	-	-	-	-	-	-	-	-	OC, gs w/20% qz-calc stringers

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
231	5345	C	10.0'	10	0.2	58	18	104	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/20% qz-calc stringers
231	5346	SC	8.0' @.25	10	<0.1	56	29	187	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/15% qz-calc stringers
231	5347	C	5.0'	105	0.3	76	67	176	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/10% qz-calc stringers
231	5348	SC	3.5' @.25	24	0.4	62	28	371	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/5% qz-calc stringers
231	5349	C	3'	512	1.3	23	119	364	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/50% gz-calc stringers
231	5350	S	0.7'	1109	3.2	62	547	10369	-	-	-	-	-	-	-	-	-	-	-	RC, qz-calc fragment w/py, sl & gn
231	5351	C	7.0'	227	1.6	119	77	855	6	-	-	-	-	-	-	-	-	-	-	TP, sc w/10% qz-calc stringers
231	5787	SC	8.0' @.25	296	0.3	164	57	253	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/qz-calc stringers, py
231	5788	C	2.0'	689	1.1	155	435	2855	-	-	-	-	-	-	-	-	-	-	-	TP, metavolcanics w/qz-calc blebs & py
231	5789	C	2.0'	304	1.8	238	138	248	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/qz stringers & py
231	5790	C	1.5'	353	2.2	125	2082	11003	-	-	-	-	-	-	-	-	-	-	-	TP, msv qz zone w/py, sl & gn
231	5791	SC	23.0' @.5	13	<0.1	159	18	132	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/qz-calc stringers, py
231	5792	SC	10.' @.25	11	<0.1	53	30	160	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/qz-calc stringers
231	5793	SC	15.' @.25	<5	<0.1	64	13	91	-	-	-	-	-	-	-	-	-	-	-	TP, gs w/qz-calc stringers, py
																				Dora Lake, reconnaissance
232	5794	C	8.0'	<5	<0.1	72	11	154	-	-	-	-	-	-	-	-	-	-	-	OC, sc w/qz blebs
																				Lancaster Cove, reconnaissance
233	5405	C	0.5'	<5	0.2	16	3	4	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
																				Saco prospect
234	5404	C	0.3'	<5	0.6	1441	6	30	<1	18	31	<20	60	<5	<5	<5	0.266	-	-	OC, qz zone w/py along fractures
																				Lancaster Cove, reconnaissance
235	5406	C	0.4'	<5	<0.1	101	5	11	-	-	-	-	-	-	-	-	-	-	-	OC, marble br zone
																				Gladstone prospect, north vein
236	5416	C	2.75'	20	0.7	5806	4	6	3	-	-	-	-	-	-	-	-	-	-	RC, qz-calc vein w/cp
236	5417	G		166	1.5	9506	3	6	2	12	3	<20	110	19	<5	<5	0.031	-	-	MD, qz-calc br w/cp

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
Gladstone prospect, adit																				
236	5855	C	2.3'	281	1.3	15343	3	5	-	-	-	-	-	-	-	-	-	-	-	UW, qz-marble br vein w/cp
Gladstone prospect, south vein																				
237	5413	C	5.5'	224	0.7	5090	3	7	-	-	-	-	-	-	-	-	-	-	-	TP, qz vein w/dissem cp
237	5414	Rep	6.0'	110	0.7	6194	4	6	3	-	-	-	-	-	-	-	-	-	-	TP, qz vein w/cp
237	5415	S	0.4'	175	5	4.00*	3	7	10	24	9	<20	<20	57	<5	<5	0.062	-	-	RC, qz vein w/10% dissem cp
237	5852	C	1.1'	1029	0.6	5262	<2	9	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/banded cp
237	5853	Rep	3.5'	12	0.6	11760	<2	6	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein w/cp
237	5854	Rep		18	<0.1	238	<2	4	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein w/cp

Lancaster Cove, marble (borrow pit)

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
238	1	SC	70' @ 2	14.4	1.83	0.43	0.33	53.8	0.99	<0.02	41.51	0.05	<.10	0.02	0.02	<0.01	0.02	99.79	96.10	TP, white & grey marble
238	2	SC	110' @ 2	17.4	1.94	0.78	0.42	53.2	0.41	0.04	41.66	0.07	0.16	0.01	0.02	<0.01	0.04	98.85	94.96	TP, white marble

Lancaster Cove, reconnaissance

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
239	5390	G	0.6'	<5	0.5	48	105	5	-	-	-	-	-	-	-	-	-	-	-	RC, qz
240	5389	G	0.2'	16	36.8	7490	6.09*	204	-	-	-	-	-	-	-	-	-	-	-	FL, qz vein w/gn & cp
241	5391	CC	0.2'	<5	0.4	115	370	9	-	-	-	-	-	-	-	-	-	-	-	OC, vuggy qz vein
242	5832	Rep	2.0'	<5	<0.1	47	3	76	-	-	-	-	-	-	-	-	-	-	-	OC, gs w/15% qz stringers
Kael-7 Mile Trend																				
243	5329	Rep	1.2'	<5	<0.1	28	11	21	-	-	-	-	-	-	-	-	-	-	-	OC, qz-marble br
243	5778	Rep	1.0'	<5	<0.1	25	6	15	8	-	-	-	-	-	-	-	-	-	-	OC, marble
244	5777	Rep	0.3 '	<5	<0.1	17	<2	4	7	-	-	-	-	-	-	-	-	-	-	OC, qz vein
245	5779	Rep	3.0'	<5	<0.1	9	7	34	6	-	-	-	-	-	-	-	-	-	-	OC, tan marble w/qz stringers
246	5330	Rep	0.4'	877	<0.1	401	7	5	-	-	-	-	-	-	-	-	-	-	-	RC, qz lens in marble & dolomite

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
247	5392	Rep	0.8'	6	0.2	56	9	28	-	-	-	-	-	-	-	-	-	-	-	TP, qz vein
247	5833	Rep	6.0'	<5	<0.1	51	4	97	-	-	-	-	-	-	-	-	-	-	-	TP, qz stringer zone in gs
												Windy Cove prospect (part of the Kael-7 mile trend)								
248	5270	C	3.0'	176	0.7	2609	<2	31	-	-	-	-	-	-	-	-	-	-	-	OC, silicified dolomite w/py & cp
249	5271	C	6.0'	5199	5.5	12626	3	<1	<1	23	19	-	460	44	<5	<5	0.48	-	-	OC, silicified dolomite w/py & cp
250	5726	C	4.0'	226	0.2	2729	<2	24	-	-	-	-	-	-	-	-	-	-	-	OC, sulf & qz-bearing dolomite
												Windy Cove adit								
250	5230	CC	1.4 '	510	1.8	1540	3	32	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein with sulf stringers
250	5231	S	0.1 '	2479	5.2	3.12*	<2	28	-	-	-	-	-	-	-	-	-	-	-	UW, select of sulf knot from qz vein
250	5697	C	1.7 '	2834	0.7	2467	<2	31	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
												Kael-7 Mile Trend								
251	5268	S	0.2'	2616	0.4	72	<2	13	-	-	-	-	-	-	-	-	-	-	-	OC, irregular qz stringers w/blebs of py
251	5269	Rep	3.0'	2375	0.8	113	4	45	-	-	-	-	-	-	-	-	-	-	-	OC, dolomite w/qz stringers & py
251	5724	S	1.0'	6	<0.1	4	<2	19	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in a tan dolomite
252	5725	C	6.0'	2146	<0.1	5	3	31	-	-	-	-	-	-	-	-	-	-	-	OC, sulf & qz-bearing dolomite
253	5410	C	2.0'	23	0.2	14	4	68	-	-	-	-	-	-	-	-	-	-	-	OC, qz stringer hosted in gs
254	5411	C	4.5'	22	0.2	21	6	57	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/sc inclusions
255	5719	S	1.0'	<5	<0.1	5	7	127	-	-	-	-	-	-	-	-	-	-	-	OC, dolomite, bearing sulf
256	5262	C	0.5'	204	7.6	2370	5	13	-	-	-	-	-	-	-	-	-	-	-	RC, qz-py band
256	5263	Rep	3.0'	<5	<0.1	12	5	36	-	-	-	-	-	-	-	-	-	-	-	OC, silicified dolomitized zone, 5% py
256	5718	S		<5	<0.1	3	4	42	-	-	-	-	-	-	-	-	-	-	-	OC, dolomite, bearing sulf
257	5263	Rep	3.0'	<5	<0.1	12	5	36	-	-	-	-	-	-	-	-	-	-	-	OC, silicified dolomite w/py
258	5267	Rep		42	<0.1	29	<2	48	-	-	-	-	-	-	-	-	-	-	-	OC, silicified dolomite with py
258	5723	Rep	15.0'	98	<0.1	42	5	93	-	-	-	-	-	-	-	-	-	-	-	OC, dolomite with clots of sulf
259	5720	SC	6.5' @.25	203	<0.1	20	4	68	-	-	-	-	-	-	-	-	-	-	-	OC, tan dolomite with qz and sulf
259	5721	S		5354	2.8	2591	5	58	-	-	-	-	-	-	-	-	-	-	-	OC, tan dolomite with qz and sulf

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
260	5264	Rep	2.0'	356	0.4	37	5	55	-	-	-	-	-	-	-	-	-	-	-	RC, silicified dolomite w/py
261	5265	Rep	0.8'	43	<0.1	18	6	62	-	-	-	-	-	-	-	-	-	-	-	OC, silicified dolomite w/py clots
262	5266	G	0.3'	209	0.3	1139	5	34	-	-	-	-	-	-	-	-	-	-	-	OC, qz-dolomite band with py blebs
263	5722	G	2.0'	29	<0.1	82	3	31	-	-	-	-	-	-	-	-	-	-	-	OC, tan dolomite with qz & sulf
264	5849	Rep		<5	<0.1	3	3	16	-	-	-	-	-	-	-	-	-	-	-	OC, qz stringer zone in fest marble
													Brennan Bay area, reconnaissance							
265	5848	Rep		<5	<0.1	18	6	23	-	-	-	-	-	-	-	-	-	-	-	OC, dark-grey marble w/dissem py
266	5845	C	1.4'	<5	<0.1	95	<2	15	-	-	-	-	-	-	-	-	-	-	-	OC, qz pod in gs
267	5412	Rep	0.3'	<5	0.3	73	6	101	-	-	-	-	-	-	-	-	-	-	-	TP, fest sc w/qz lens & 7% py
268	5851	C	2.3'	101	<0.1	3	<2	13	-	-	-	-	-	-	-	-	-	-	-	OC, qz lens hosted in gs
269	5850	SC	11.0' @.5	<5	<0.1	7	3	88	-	-	-	-	-	-	-	-	-	-	-	OC, sc w/qz stringers
270	5847	C	4.8'	7	0.2	126	<2	137	-	-	-	-	-	-	-	-	-	-	-	OC, gs w/qz stringer, py & hematite
271	5844	C	1.8'	<5	<0.1	4	<2	49	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein hosted in gs
272	5839	C	6.0'	<5	0.2	73	16	60	-	-	-	-	-	-	-	-	-	-	-	TP, grey talc sc w/qz & py
272	5840	C	6.1'	<5	<0.1	73	4	71	-	-	-	-	-	-	-	-	-	-	-	TP, grey talc sc w/py & qz string
273	5843	C	1.8'	<5	<0.1	17	<2	15	-	-	-	-	-	-	-	-	-	-	-	OC, qz lens in gs
274	5334	C	0.6'	<5	<0.1	17	3	45	-	-	-	-	-	-	-	-	-	-	-	OC, qz stringer
275	5841	RC		<5	<0.1	15	3	36	-	-	-	-	-	-	-	-	-	-	-	RC, grey-green talc sc w/py bands
275	5842	S		<5	0.1	601	2	30	-	-	-	-	-	-	-	-	-	-	-	TP, sulf pod in qz lens in talc sc
													Jesse Lake prospect, (borrow pit)							
276	5278	C	2.6'	32	<0.2	47	13	4	17	45	21	-	<20	<5	150	<5	0.181	-	-	OC, silicified gs, py bands
276	5279	C	1.5'	135	1	144	30	66	-	-	-	-	-	-	-	-	-	-	-	OC, gossan
													Kitkum Bay, reconnaissance							
277	5328	C	2.0'	<5	<0.1	7	15	13	-	-	-	-	-	-	-	-	-	-	-	OC, qz lens hosted in grey sc
278	5393	Rep	6.0'	<5	<0.1	3	11	87	-	-	-	-	-	-	-	-	-	-	-	TP, banded marble w/bands of sc
278	5834	Rep	13.0'	<5	0.2	106	4	100	-	-	-	-	-	-	-	-	-	-	-	OC, interbedded, folded marble & sc

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
											Washington prospect									
279	5394	SC	7.0' @.5	7	0.2	2	5	4	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
279	5395	SC	12.0' @.5	10	0.2	2	10	6	<1	6	2	<20	80	<5	<5	<5	<0.01	-	-	OC, qz vein
279	5396	SC	7.0' @.5	6	0.2	2	5	4	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
279	5397	C	2.5'	27	0.2	14	7	24	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein & grey limey sc host
279	5398	C	3.0'	13	<0.1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
											Kitkum Bay, reconnaissance									
280	5835	Rep		<5	<0.1	21	4	134	-	-	-	-	-	-	-	-	-	-	-	FL, banded marble and chl sc
281	5836	CC	0.7'	<5	<0.1	8	4	60	-	-	-	-	-	-	-	-	-	-	-	OC, chl sc w/qz stringers & blebs
282	5399	G	0.7'	<5	<0.1	<1	4	8	<1	-	-	-	-	-	-	-	-	-	-	RC, qz-calc sc
											Kitkum Bay, west occurrence									
283	5327	C	0.4'	<5	<0.1	8	23	18	-	-	-	-	-	-	-	-	-	-	-	OC, qz lens w/py & ml
284	5326	C	0.3'	<5	1.3	128	1278	1922	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
											Kitkum Bay, reconnaissance									
285	5403	C	2.5'	<5	<0.1	3	5	40	-	-	-	-	-	-	-	-	-	-	-	OC, qz lenses in tan-colored sc
286	5400	C	1.2'	<5	0.1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein w/py, cp, ml, az
286	5401	C	4.0'	7	<0.1	25	6	75	-	-	-	-	-	-	-	-	-	-	-	OC, sc w/dissem py in qz stringer
286	5402	C	2.1'	<5	<0.1	3	5	6	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/py along fractures
286	5837	C	8.8'	<5	0.1	3	4	9	-	-	-	-	-	-	-	-	-	-	-	TP, L-shaped qz-carbonate vein
286	5838	S		<5	<0.1	2	4	46	-	-	-	-	-	-	-	-	-	-	-	TP, maraposite
											Dolomi Mountain, reconnaissance									
287	5224	Rep	0.5 '	<5	<0.1	4	<2	10	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein in green micaceous wallrock
288	5226	C	1.6 '	<5	<0.1	4	5	8	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein, vuggy @ places
288	5227	C	1.0 '	<5	<0.1	12	<2	5	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein
289	5225	C	0.3 '	<5	<0.1	2	<2	7	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
290	5223	Rep	0.3 '	6	<0.1	11	3	172	-	-	-	-	-	-	-	-	-	-	-	OC, qz-calc vein w/po & mica
290	5695	Rep	0.5 '	<5	1	14	4	79	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in qz-marble host

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
Golden Fleece Mine																				
291	5228	C	1.5 '	279	38.9	230	42	62	-	-	-	-	-	-	-	-	-	-	-	UW, qz, qz-marble br vein w/marble
291	5229	CC	0.35 '	785	19.2	114	17	39	-	-	-	-	-	-	-	-	-	-	-	UW, qz, qz-marble br vein
291	5696	Rep	0.1 '	222	34.1	222	59	64	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
James Lake, reconnaissance																				
292	5701	Rep		<5	<0.1	9	<2	6	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein
James Lake, west prospect																				
293	5236	C	5.3'	<5	<0.1	5	<2	4	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
293	5237	C	1.2'	8060	7.7	480	56	58	3	57	98	-	80	<5	289	<5	0.2	-	-	UW, qz w/limonite & py lenses
293	5238	Rep		54	0.5	51	3	66	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein w/sparse po & py
293	5239	S		412	8.6	350	19	48	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein w/20% po & py
293	5700	C	13'	7	0.2	8	4	14	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
293	5702	Rep		<5	<0.1	3	<2	<1	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
294	5234	C	8.5'	<5	0.2	10	<2	7	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
294	5235	G		<5	<0.1	41	<2	6	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein
294	5240	C	2.5'	<5	<0.1	5	<2	4	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein
294	5699	C	4.0'	14	<0.1	27	<2	3	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
Valparaiso Mine																				
295	5241	CC	4.5'	931	45.9	245	59	159	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein w/ml & qz-marble br
295	5242	CC	4 '	4703	1.9	10	44	80	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein & adjacent qz-marble br
295	5243	CC	2.3'	272	1.1	9	45	49	-	-	-	-	-	-	-	-	-	-	-	UW, qz/qz-marble br vein
295	5244	CC	5.5'	548	6.7	51	47	97	-	-	-	-	-	-	-	-	-	-	-	UW, qz/qz-marble br vein
295	5245	CC	3.0'	1623	2.1	14	22	91	-	-	-	-	-	-	-	-	-	-	-	UW, qz
295	5246	CC	2.8'	383	0.9	21	16	124	-	-	-	-	-	-	-	-	-	-	-	UW, qz/qz-marble br vein
295	5247	CC	3.0'	834	4.1	40	97	202	-	-	-	-	-	-	-	-	-	-	-	UW, qz/qz-marble br
295	5248	S	0.5'	2.133*	5.90*	1352	534	207	<1	5	1	-	<20	<5	38	230	10.825	-	-	UW, qz vein with ml & sulf
295	5407	CC	2.3'	8658	14.5	62	159	45	<1	7	1	<20	<20	<5	6	27	2.572	-	-	UW, qz vein
295	5408	C	4.5'	1199	1.2	19	20	50	-	-	-	-	-	-	-	-	-	-	-	UW, marble br w/10% qz br
295	5409	C	1.5'	3315	9.3	139	30	143	-	-	-	-	-	-	-	-	-	-	-	UW, grey-rusty, fest fault gouge
295	5703	CC	4.0'	233	0.5	10	15	33	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
295	5704	CC	3.9'	305	0.2	2	11	40	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
295	5705	CC	6.0'	586	8.9	57	30	66	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
295	5706	CC	5.5'	137	4.9	22	12	72	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
295	5707	CC	4.0'	267	0.2	5	4	38	-	-	-	-	-	-	-	-	-	-	-	UW, qz-marble br vein
295	5708	CC	2.7'	2816	1.4	6	64	107	-	-	-	-	-	-	-	-	-	-	-	UW, qz/qz-marble br vein
295	5846	CC	2.6'	3061	33.5	236	108	89	-	-	-	-	-	-	-	-	-	-	-	UW, qz and qz-marble br
																				Valparaiso crosscut
296	5257	C	0.7'	2495	1.2	5	3	6	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein w/py
																				Valparaiso tailings
297	5249	G	2 pints	3576	6.9	33	39	172	<1	8	5	-	<20	<5	10	16	1.628	-	-	MT, qz sand, tailings from Valparaiso
																				James adit
298	5250	G	0.5'	2.58*	44.5	310	84	119	-	-	-	-	-	-	-	-	-	-	-	MD, qz vein
																				Paul Lake, west prospect
299	5368	CC	0.1'	<5	<0.1	21	4	43	-	-	-	-	-	-	-	-	-	-	-	OC, qz stringer
300	5369	C	0.2'	24	3.1	42	5209	9673	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein w/gs ribbon, py & gn
300	5809	Rep	1.0'	<5	<0.1	23	5	73	-	-	-	-	-	-	-	-	-	-	-	OC, qz band in marble
301	5370	Rep	0.2'	<5	<0.1	41	15	71	-	-	-	-	-	-	-	-	-	-	-	FL, qz vein w/gs sc host
301	5810	Rep		<5	<0.1	5	5	12	-	-	-	-	-	-	-	-	-	-	-	FL, banded marble
																				Jumbo prospect
302	5272	Rep	17'	194	1.1	106	14	25	1	12	5	-	60	<5	15	7	0.114	-	-	OC, qz vein
302	5273	C	6'	175	0.4	67	<2	9	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
302	5727	SC	9.6' @.5	1493	1.2	22	7	26	-	-	-	-	-	-	-	-	-	-	-	OC, qz-marble br vein
302	5728	SC	10.0' @.5	279	0.3	37	11	24	-	-	-	-	-	-	-	-	-	-	-	OC, qz-marble br vein
																				Jumbo prospect, (borrow pit)
303	5274	C	9'	21	<0.1	5	5	8	-	-	-	-	-	-	-	-	-	-	-	OC, qz/qz-marble br vein
303	5275	C	6.0'	<5	3.5	19	7	23	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
303	5276	Rep	7.0'	<5	<0.1	4	<2	14	-	-	-	-	-	-	-	-	-	-	-	OC, qz marble br
303	5277	C	5.0'	<5	<0.1	4	3	7	-	-	-	-	-	-	-	-	-	-	-	OC, qz/qz-marble br vein
303	5729	RC		13	0.6	4	17	10	-	-	-	-	-	-	-	-	-	-	-	TP, qz/qz-marble br vein
												Boston prospect								
304	5251	Rep	0.2'	174	5.7	22	112	23	-	-	-	-	-	-	-	-	-	-	-	RC, qz-carbonate vein
304	5252	Rep	0.4'	807	2.87*	169	62	70	-	-	-	-	-	-	-	-	-	-	-	RC, qz vein
304	5253	C	1.5'	184	2.29*	303	176	145	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
304	5254	SC	10.0'@.25	8745	6.79*	1077	378	217	<1	7	1	-	<20	<5	67	456	9.48	-	-	OC, qz vein hosted in marble
304	5255	C	6.0'	88	27.7	140	131	118	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein hosted in marble
304	5256	SC	3.5'@.25	74	3.6	30	64	60	-	-	-	-	-	-	-	-	-	-	-	OC, qz, qz-marble br vein
304	5711	Rep	1.5'	.279*	1.89*	12	7	18	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
304	5712	CC	3.5'	160	33.6	48	362	90	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
304	5713	Rep	3.3'	4576	3.21*	484	108	129	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
												Cape Horn prospect								
305	5236	C	5.3'	<5	<0.1	5	<2	4	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein
306	5233	G		12	0.2	421	4	60	-	-	-	-	-	-	-	-	-	-	-	OC, qz-sericite sc
307	5698	G	0.8 '	12	2.1	26	4	13	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein in gs

Scraggy Point, north marble

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
308	M4	C	26'	15	1.13	0.64	0.33	54	0.86	<0.02	42.57	0.08	<.10	0.02	0.01	<0.01	0.04	99.5	96.39	OC, white marble

Paul Lake occurrence

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
309	5261	Rep	1.0'	102	<0.1	20	5	29	-	-	-	-	-	-	-	-	-	-	-	RC, qz/qz-marble br vein
309	5716	CC	1.0'	8	0.8	6	13	17	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
310	5715	C	1.3'	<5	0.3	39	5	121	-	-	-	-	-	-	-	-	-	-	-	OC, sc band hosted by marble

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
311	5258	CC	0.65'	<5	0.2	3	<2	11	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
311	5259	Rep	0.8'	<5	<0.1	4	<2	31	-	-	-	-	-	-	-	-	-	-	-	OC, qz vein
311	5260	S		<5	0.5	6464	4	75	-	-	-	-	-	-	-	-	-	-	-	OC, gs w/py, cp, ml
311	5714	CC	1.1'	<5	1.2	15	13	25	-	-	-	-	-	-	-	-	-	-	-	OC, qz lens hosted in sc

Dolomi Bay, west marble

Map No.	Sample No.	Sample type	Sample size	lb	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	SO_3	LOI	Na_2O	K_2O	P_2O_5	MnO	Cr_2O_3	TiO_2	Total	Titrated $CaCO_3$	Sample description
312	M6	SC	165' @ 1	13.5	2.65	0.48	0.4	50.3	5.04	0.03	41.59	0.05	<.1	<.01	0.04	<0.01	0.03	98.59	89.87	OC, grey marble
313	M5	SC	75' @ 1	15.3	2.7	0.55	0.42	49.3	6.52	0.09	42.42	0.07	0.12	<.01	0.02	<0.01	0.04	98.54	88.01	TP, grey and cream marble

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
313	5710	CC	3.5'	11	0.3	55	6	128	-	-	-	-	-	-	-	-	-	-	-	TP, altered qz vein hosted by marble

Hope adit

314	5371	CC	1.8'	2933	10.7	2506	554	1106	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein w/py, cp & ml
314	5372	CC	1.2'	3105	10.1	109	24	12	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein w/py
314	5373	CC	1.5'	1897	8	36	26	35	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein w/py
314	5374	S	0.4'	1.487*	4.76*	226	138	11	14	-	337	-	<20	11	<5	-	<5	-	-	MD, qz vein w/py
314	5811	CC	0.8'	2728	12	69	14	20	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein w/sulf
314	5812	CC	1.1'	739	1.3	43	7	27	-	-	-	-	-	-	-	-	-	-	-	UW, qz vein w/sulf
314	5813	C	1.2'	1642	5.8	23	12	21	-	-	209	-	<20	<5	<5	-	<5	-	-	UW, qz vein w/sulf

Niblack Mine

315	5280	S	1.0'	929	29.5	8.76*	38	1473	-	-	-	-	-	-	-	-	-	-	-	OC, massive py & cp in gs
315	5739	S		7561	4.9	4558	201	1343	-	-	-	-	-	-	-	-	-	-	-	MT, jasper with sulf
315	5740	S		134	0.2	160	11	196	-	-	-	-	-	-	-	-	-	-	-	MT, jasper with mag
315	5741	S		256	7.2	9185	11	681	-	-	-	-	-	-	-	-	-	-	-	MT, py-rich gs

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
Edith M adit																				
316	5322	SC	20.0' @ 1	83	0.2	104	6	232	-	-	-	-	-	-	-	-	-	-	-	UW, rhyolitic tuff w/ dissem py
316	5323	SC	20.0' @ 1	28	0.2	35	5	188	-	-	-	-	-	-	-	-	-	-	-	UW, rhyolitic tuff w/ dissem py
316	5775	SC	22.0' @ 1	18	<0.1	34	3	129	7	-	-	-	-	-	-	-	-	-	-	UW, rhyolitic tuff w/ dissem py
316	5776	SC	20.0' @ 1	18	0.2	60	4	211	5	-	-	-	-	-	-	-	-	-	-	UW, rhyolitic tuff w/ dissem py
Mammoth adits																				
317	5319	SC	15.0' @ 1	40	2	1133	21	371	-	-	-	-	-	-	-	-	-	-	-	UW, silicified gs sc
317	5320	SC	10.0' @ 1	56	1.4	98	15	357	-	-	-	-	-	-	-	-	-	-	-	UW, silicified gs sc
317	5321	G	0.1'	302	9.7	2687	18	286	-	-	-	-	-	-	-	-	-	-	-	UW, py band
317	5773	C	3.0'	197	2.3	55	149	9	5	-	-	-	-	-	-	-	-	-	-	UW, msv sulf zone
317	5774	C	5.0'	232	12.5	14346	21	389	6	-	-	-	-	-	-	-	-	-	-	UW, msv sulf zone
Beach adit																				
318	5324	SC	12.0' @ 1	64	0.4	18	13	136	-	-	-	-	-	-	-	-	-	-	-	UW, qz-sericite sc
318	5325	SC	14.0' @ 1	43	0.8	40	23	225	-	-	-	-	-	-	-	-	-	-	-	UW, rhyolitic crystal tuff w/ 15% py
Lookout lower adit																				
319	5361	SC	11.0' @ 1	25	0.6	897	16	3164	-	-	-	-	-	-	-	-	-	-	-	UW, silicified gs w/py
Lookout upper adit																				
320	5359	SC	10.0' @ 1	268	7.1	887	61	315	-	-	-	-	-	-	-	-	-	-	-	UW, silicified sc w/15% py
320	5360	SC	10.0' @ 1	120	0.8	288	28	1027	-	-	-	-	-	-	-	-	-	-	-	UW, silicified sericite sc w/py
320	5798	SC	10.0' @ 1	62	0.3	87	15	122	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/dissem py
320	5799	SC	10.0' @ 1	14	<0.1	499	7	1108	-	-	-	-	-	-	-	-	-	-	-	UW, silicified sc w/py
Lookout open cut																				
321	5800	SC	12.0' @ 1	778	26	11045	70	10464	-	-	-	-	-	-	-	-	-	-	-	TP, interbedded sc & gs w/sl

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
												Broadgague adits								
322	5377	C	5.0'	32	0.2	62	6	17	5	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/py
322	5378	C	6.5'	29	0.3	139	6	44	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/py
322	5379	C	6.5'	20	0.3	519	8	54	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/py
322	5815	C	3.5'	25	<0.1	24	6	117	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/py
322	5816	SC	18.0'@.25	<5	<0.1	90	6	274	-	-	-	-	-	-	-	-	-	-	-	UW, py band in sc
																				UW, msv gs w/dissem py
												Broadgague workings								
323	5375	C	7.0'	209	0.6	13	6	26	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/py
323	5376	C	4.0'	158	0.5	19	5	32	3	-	107	-	190	<5	<5	-	<5	-	-	UW, sericite sc w/py
323	5814	C	3.1'	22	0.3	230	4	206	-	-	-	-	-	-	-	-	-	-	-	UW, fest sc w/dissem py
323	5817	SC	10.2' @.5	19	<0.1	87	5	760	-	-	-	-	-	-	-	-	-	-	-	OC, gs sc w/qz blebs & py
												Trio workings								
324	5355	SC	10.0' @ 1	26	0.6	1362	16	418	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/10% py & ml-stain
324	5356	SC	10.0' @ 1	25	0.2	316	5	346	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/7% py
324	5357	G		76	2	7874	23	371	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/15% py, ml
324	5796	SC	10.0' @ 1	27	<0.1	44	24	351	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/dissem py
324	5797	SC	16.0' @ 1	31	0.2	235	14	221	-	-	-	-	-	-	-	-	-	-	-	UW, sericite sc w/dissem py
325	5358	S	0.2'	215	1.2	53	15	30	-	-	-	-	-	-	-	-	-	-	-	TP, msv py lens, 60% py
												Bokan Mountain, summit prospect								
326	5307	C	0.8'	<5	0.4	68	92	320	-	-	-	-	-	-	-	-	-	-	-	OC, pegmatite vein (qz, K-spar)
326	5761	C	1.7'	28	0.3	48	74	287	-	-	-	-	-	-	-	-	-	-	-	OC, pegmatite vein in riebeckite granite

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	Ho	Ce	Nd	Pr	Er	Gd	Sample description
326	5307	C	0.8'	0.36	51	55.6	43.7	103	323	290	18	9.2	160	49	950	390	87	130	80	OC, pegmatite vein (qz, K-spar)
326	5761	C	1.7'	0.65	95	59	49	167	618	300	34	12.8	140	48	1670	650	170	170	100	OC, pegmatite vein in riebeckite granite

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
Purple Pieper prospect																				
327	5762	G		12	<0.1	123	9	33	-	-	-	-	-	-	-	-	-	-	-	RC, fluorite

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	Ho	Ce	Nd	Pr	Er	Gd	Sample description
327	5762	G		1.25	220	4.5	12.3	13	13.8	95	5.9	2.4	41	10	33	27	<6	32	24	RC, fluorite

Nelson and Tift Mine

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
328	5308	Rep		<5	<0.1	102	6	47	-	-	-	-	-	-	-	-	-	-	-	OC, di

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	Ho	Ce	Nd	Pr	Er	Gd	Sample description
328	5308	Rep		20.5	2	1.3	0.37	4.57	17	2.5	<0.5	1.3	3	0.8	39	22	<10	<3	<5	OC, di

Apex prospect, lower road

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
329	5310	SC	10.0' @ 1	41	<0.1	1576	6	14	2	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/cp
329	5311	SC	54.0' @ 1	33	0.2	1254	6	8	4	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/cp
329	5312	SC	13.0' @ 1	204	0.4	3609	6	12	7	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/cp
329	5313	CC	0.55'	504	0.6	7674	8	13	8	-	-	-	-	-	-	-	-	-	-	OC, qz-barite vein w/cp blebs @ margin
329	5765	SC	40.0' @ 1	561	0.2	1142	4	14	4	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/cp & ml
329	5766	SC	12.0' @ 1	51	0.2	1590	6	15	4	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/cp & ml
329	5767	C	0.8'	2207	1.5	10246	3	12	6	-	-	-	-	-	-	-	-	-	-	OC, msv sulf zone w/cp
329	5768	SC	16.0' @ 1	63	<0.1	477	4	15	4	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/cp

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
												Apex prospect								
330	5763	SC	66.' @1.5	26	<0.1	1549	5	8	-	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/barite & sulf
330	5764	C	3.0'	52	0.2	3494	4	5	5	-	-	-	-	-	-	-	-	-	-	OC, barite vein w/cp
												Apex upper trench								
331	5309	Rep	50'	38	0.2	1689	6	6	5	-	-	-	-	-	-	-	-	-	-	OC, monzonite, silicified in places w/cp
331	5318	Rep	24'	18	<0.1	248	8	19	2	-	-	-	-	-	-	-	-	-	-	OC, monzonite
331	5772	SC	32.0' @ 1	78	0.2	1534	<2	4	3	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/barite, ml, py & cp
												Apex, number 2 adit vicinity								
332	5314	SC	33.0' @ 1	28	<0.1	233	4	7	6	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/py & cp
332	5315	SC	16.0' @ 1	9	<0.1	208	5	10	3	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/py & cp
332	5316	SC	82.0' @ 1	<5	<0.1	303	5	7	2	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/cp
332	5317	C	4.5'	639	0.5	2418	10	6	5	-	-	-	-	-	-	-	-	-	-	OC, fest sheared monzonite
332	5769	SC	24.0' @ 1	66	0.2	2310	4	8	4	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/cp
332	5770	SC	24.0' @ 1	23	<0.1	90	8	12	3	-	-	-	-	-	-	-	-	-	-	OC, monzonite
332	5771	SC	85.0' @ 1	44	<0.1	684	4	4	2	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/cp
												Veta prospect								
333	5306	CC	0.2'	3344	17.6	3.56*	12	45	-	-	-	-	-	-	-	-	-	<5	3	OC, silicified band w/cp & ml
333	5760	C	1.3'	3157	7.5	10600	19	161	11	-	-	-	-	-	-	-	-	<5	7	TP, sulf zone in gs w/cp
												Stone Rock Bay, north prospect								
334	5300	S	0.5'	214	4.7	4181	90	37	2	-	-	-	-	-	-	-	-	-	-	OC, syenite w/ml, az, cp
335	5756	S		31	1	2003	11	29	259	-	-	-	-	-	-	-	-	-	-	RC, purple syenite w/calc veins & cp

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
									Stone Rock Bay, east occurrence											
336	5304	C	0.4'	1445	6.4	7800	41	55	3	-	-	-	-	-	-	-	-	5	19	OC, syenite w/ml, cp
337	5303	C	0.5'	208	4.1	3400	24	134	7	-	-	-	-	-	-	-	-	<5	2	OC, silicified zone w/po, py, ml & cp
337	5757	Rep	1.0'	159	1.5	1721	77	153	6	-	-	-	-	-	-	-	-	-	-	OC, black carbonatite w/cp

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	Ho	Ce	Nd	Pr	Er	Gd	Sample description
337	5757	Rep	1.0'	3.2	1430	707	1.67	200	9000	12	<3	45	41	79.5	12700	3300	1100	15	78	UW, black carbonatite w/cp

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
									Stone Rock Bay, west adit											
338	5305	C	0.3'	113	1.4	238	50	71	-	-	-	-	-	-	-	-	-	<5	8	UW, po-py band
338	5759	C	2.0'	6	<0.1	221	7	88	17	-	-	-	-	-	-	-	-	8	7	OC, sulf zone in pyroxenite
									Stone Rock Bay prospect											
339	5295	SC	65.0' @ 2	40	2.9	2891	113	135	-	-	-	-	-	-	-	-	-	17	30	UW, pyroxenite w/dissem cp & ml stain
339	5296	C	1.5'	50	14.6	2743	2.86*	129	-	-	-	-	-	-	-	-	-	9	85	UW, qz, qz-calc vein w/cp & ml
339	5297	C	4.5'	91	3	2760	104	160	-	-	-	-	-	-	-	-	-	7	40	UW, pyroxenite w/irregular carbonate lens w/cp
339	5298	C	1.8'	48	5	6949	326	109	-	-	-	-	-	-	-	-	-	20	74	UW, qz-calc vein w/cp & ml
339	5299	C	1.2'	48	6	6927	43	146	-	-	-	-	-	-	-	-	-	21	315	UW, qz-carbonate w/ml & cp
339	5752	SC	64.0' @ 1	39	0.7	517	8	105	5	-	-	-	-	-	-	-	-	6	13	UW, pyroxenite
339	5753	S		268	8.3	5466	86	107	928	-	-	-	-	-	-	-	-	<5	18	UW, fault gouge w/cp, mo, sulf & carbonate
339	5754	Rep		14	0.5	298	18	152	18	-	-	-	-	-	-	-	-	<5	13	UW, pyroxenite w/qz veins & calc
339	5755	C	1.8'	50	4.4	6063	9	99	8	-	-	-	-	-	-	-	-	14	61	OC, qz vein w/cp in pyroxenite
339	5758	C	1.0'	22	0.3	426	<2	14	3	-	-	-	-	-	-	-	-	11	14	UW, qz-calc vein

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
										Stone Rock Bay occurrence										
340	5301	C	0.1'	43	0.3	292	22	49	-	-	-	-	-	-	-	-	-	<5	8	OC, discontinuous py vein-lens
										AC prospect										
341	5367	Rep	2.0'	<5	<0.1	11	15	40	3	-	63	-	1500	<5	<5	-	<5	-	-	RC, granodiorite
342	5808	Rep	1.0'	<5	<0.1	38	8	106	-	-	-	-	-	-	-	-	-	-	-	RC, mafic volcanic w/dissem py

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	No	Ce	Nd	Pr	Er	Gd	Sample description
342	5808	Rep	1.0'	23	-	-	0.53	8	30	3.5	0.7	2.4	6.3	1.2	74	45	<13	<7	8	RC, mafic volcanic w/dissem py

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
										Bug prospect										
343	5363	G	0.4'	6	0.4	216	49	195	31	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/py
344	5804	Rep	3.0'	<5	<0.1	154	7	71	11	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/fluorite & py
345	5801	Rep	4.0'	<5	0.3	256	36	221	10	-	-	-	-	-	-	-	-	-	-	OC, monzonite w/dissem py & flourite
346	5802	Rep	3.0'	15	0.3	369	23	234	12	-	42	-	890	<5	27	-	<5	-	-	OC, pyroxenite w/dissem py
347	5302	S	0.2'	<5	0.2	274	41	56	4	-	-	-	-	-	-	-	-	-	-	RC, syenite w/dissem py & cp
347	5362	Rep	5.0'	21	0.9	124	24	126	26	-	47	-	1100	<5	7	-	<5	-	-	OC, monzonite w/py
347	5803	Rep	6.0'	<5	0.2	77	22	124	18	-	-	-	-	-	-	-	-	-	-	OC, pyroxenite w/qz stringers, py, fluorite

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	No	Ce	Nd	Pr	Er	Gd	Sample description
343	5363	G	0.4'	14	-	-	0.63	14	560	4.6	<0.5	3.3	5.8	1.4	588	136	42	4	10	OC, monzonite w/py
347	5362	Rep	5.0'	2.9	-	-	0.36	11	150	2.8	0.4	2.5	3.9	0.8	257	74	16	2	7	OC, monzonite w/py

Table A-4.--Selected analytical results, Southeast Prince of Wales subarea. Map numbers refer to figure 4, section D.

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
								Nichols Bay shaft prospect												
348	5287	SC	17.0' @ 1	<5	0.4	45	80	352	-	-	-	-	-	-	-	-	-	-	-	OC, silicified volcanics w/po
348	5288	C	2.4'	48	6.6	90	125	526	-	-	-	-	-	-	-	-	-	-	-	OC, silicified volcanics w/po & sl
348	5289	C	1.5'	23	6.2	73	153	657	-	-	-	-	-	-	-	-	-	-	-	OC, silicified volcanics w/po & sl
348	5290	SC	17.0' @ 1	<5	0.4	26	175	241	-	-	-	-	-	-	-	-	-	-	-	OC, silicified volcanics w/sulf
348	5745	SC	13.0' @ 1	28	4.1	60	127	3732	-	-	-	-	-	-	-	-	-	-	-	OC, silicified volcanics w/po & sl
348	5746	SC	12.0' @ 1	15	5.5	23	258	6078	-	-	-	-	-	-	-	-	-	-	-	OC, 20% po & sl
348	5747	SC	10.0' @ 1	9	2.9	33	132	7316	-	-	-	-	-	-	-	-	-	-	-	OC, silicified volcanics w/po & sl
								Huaja Cliff occurrence												
349	5281	C	0.6'	13	0.3	268	17	32	-	-	-	-	-	-	-	-	-	7	4	OC, feldspar pegmatite
350	5282	C	0.6'	11	0.6	1283	7	90	-	-	-	-	-	-	-	-	-	<5	2	OC, fine-grained mafic dike w/ dissem po & cp
351	5283	C	2.0'	3	<0.1	682	6	49	-	-	-	-	-	-	-	-	-	6	8	OC, feldspar-hnbd-pegmatite zone w/cp
351	5284	Rep	0.1'	4	1	1202	10	84	-	-	-	-	-	-	-	-	-	25	21	OC, po, cp lens in pegmatitic zone
352	5742	Rep	8.0'	5	<0.1	55	5	50	-	-	-	-	-	-	-	-	-	10	7	OC, mafic intrusion w/abundant mag

Map No.	Sample No.	Sample type	Sample size	Sc	Th	U	Lu	Sm	La	Yb	Tm	Eu	Dy	Ho	Ce	Nd	Pr	Er	Gd	Sample description
349	5281	C	0.6'	0.89	47	18	0.16	2.1	34	1	<0.5	1	0.7	0.2	42.1	15	<10	<1	<3	OC, feldspar pegmatite

Map No.	Sample No.	Sample type	Sample size	Au	Ag	Cu	Pb	Zn	Mo	Ni	Co	W	Ba	Bi	As	Sb	Hg	Pt	Pd	Sample description
								Nichols Bay, west side occurrence												
353	5286	Rep	0.4'	<5	<0.1	131	3	24	-	-	-	-	-	-	-	-	-	-	-	RC, silicified gs w/py
353	5744	S		<5	<0.1	23	5	21	-	-	-	-	-	-	-	-	-	-	-	OC, lens of sulf-bearing gs
354	5743	C	0.8 '	84	1.2	261	21	405	-	-	-	-	-	-	-	-	-	-	-	OC, msv sulfide lens
								Nichols Bay, reconnaissance												
355	5285	C	0.8'	24	0.4	57	12	105	-	-	-	-	-	-	-	-	-	-	-	OC, silicified gs w/bands of py

TABLE A-5.-- Sand and Gravel Analysis

Sample **SG100:**	Bulk specific gravity (coarse):	2.63
	Apparent specific gravity (coarse):	2.72
	Apparent specific gravity (fine):	2.69
	Absorption (coarse):	1.25%
	LA abrasion value:	23
	Alaska degradation value:	27
	Unit weight of aggregate:	120 lb/ft^3

Sieve Analysis of Fine and Coarse Aggregate

Screen Size	% Passing Coarse (plus #4) Fraction	% Passing Fine (minus #4) Fraction
2"	99	
1 1/2"	95	
1"	91	
3/4"	86	
1/2"	77	
3/8"	69	
#4		49
#8		31
#20		11
#40		7.1
#60		5.4
#80		4.6
#200		3.4

Table A-6.--Brightness test results for selected limestone samples

Sample No.	Brightness %
LS159	93.70
LS160	94.50
LS161	94.25
LS162	94.00

APPENDIX B --SAMPLING AND ANALYTICAL PROCEDURES

SAMPLING

Rock samples collected were of several types, including continuous chip, chip channel, channel, grab, representative chip, select, and spaced chip. **Continuous-chip** samples consist of ore or rock chips taken in a continuous line across an exposure; a **chip-channel** sample is cut across a relatively uniform width and depth across a vein, zone, structure, or mineralized body; **channel samples** consist of chips, fragments, and dust from a channel of uniform width and depth cut across the face or bank of an exposure of ore or mineralized rock; **grab samples** are collections of mineral or rock fragments, some broken from larger pieces, taken more or less at random from an outcrop, as float, or from a dump; **random-chip** samples consist of small rock fragments broken randomly from an outcrop; **representative-chip** samples characterize the proportions of various rock types present at an exposure; **select samples** are grab samples collected from the highest-grade portion of a mineralized zone; and **spaced-chip** samples are composed of rock fragments taken at specified intervals across an outcrop.

Stream samples collected include moss mat, pan concentrate, placer, and stream sediment. **Moss-mat** samples consist of dirt and fine sediments shaken from moss piles lying atop logs and/or rocks above the ambient water level within a stream drainage. These sediments should contain heavy minerals transported during flood stage and can indicate the presence of gold. **Pan-concentrate** samples are taken to determine whether a placer sample is warranted at a specific location. **Placer samples** consist of 0.1 yd^3 of material processed through a 4-foot sluice box. The resultant concentrates are visually examined to ascertain free gold content and also submitted for analysis. **Stream-sediment** samples were taken on a limited basis to determine anomalous metal values in an area.

Sand and gravel samples are taken to characterize alluvial or glaciofluvial deposits for engineering qualities. A channel sample consisting of approximately 0.25 yd^3 of material is taken across the vertical section of a deposit to characterize the minus 3-inch portion.

Six metallurgical samples were taken to represent ore from various deposit types within the study area. Beneficiation results will be published in a future report.

ANALYTICAL RESULTS

Samples were prepared and subsequently analyzed using both atomic absorption spectrophotometry (AA) and inductively coupled argon plasma (ICP) techniques. Gold was analyzed by fire assay preconcentration followed by an atomic absorption finish. If the analysis revealed concentrations in excess of 10,000 ppb gold, a gravimetric finish was performed. Silver, copper, lead, zinc, nickel, cobalt, and molybdenum were usually analyzed by atomic absorption techniques. Tungsten was analyzed by colorimetrics and x-ray fluorescence was used to analyze barium and tin. A few samples were analyzed for platinum-group metals using fire-assay techniques. Most rare-earth elements were analyzed using neutron activation methods, although yttrium, cerium, and lanthanum were analyzed by x-ray fluorescence. Selected high-grade samples were analyzed for a suite of elements using the 16-element ICP package. A few samples were analyzed for the same element using two different techniques to quantify analytical error; the lower of the two results will be presented in our tables.

Rock samples were dried, crushed, and pulverized to at least minus 100 mesh. A sample weight

of 0.5 gm was put into solution using a hot-extraction HNO_3-HCL technique for the atomic absorption analyses.

A sand and gravel sample was taken and analyzed for engineering qualities including: specific gravity (fine and coarse), absorption (fine and coarse), LA abrasion, Alaska degradation, sieve analysis, percent moisture, and unit weight as received. These tests were conducted according to methods prescribed by the American Society for Testing and Materials (ASTM).

Limestone samples ($CaC0_3$) were analyzed using standard wet analyses (oxide determinations by ICP and atomic absorption) and total carbonate acid/alkali procedures ($CaCO_3$ calculated by converting CaO percentage as determined by volumetric/titration method ASTM C-25). Each sample was rinsed, dried, and weighed prior to analysis. Although the $CaCO_3$ percentages are high, the more telling analyses are those given for the impurities (Fe_2O_3, Al_2O_3, SiO_2, etc.). These values are generally low which correlates with the high-grade $CaCO_3$ composition of these rocks. Brightness determinations were performed according to the ASTM Method E97. This method uses the directional reflectance of opaque specimens by filter photometry using the green filter.

Table B-1. - Detection limits by analytical technique

Element	Minimum, ppm	Maximum, ppm
Fire assay-atomic absorption spectrophotometry/gravimetric finish		
Au	0.005	none
Pt, Pd	0.005	none
Atomic absorption spectrophotometry		
Ag	0.1	50
Cu	1	20,000
Pb	2	10,000
Zn	1	20,000
Mo	1	20,000
Co	1	20,000
Ni	2	10,000
X-Ray Fluorescence		
Ba	20	2,000
Sn	5	2,000
Colorimetrics		
W	2	200
Induced coupled argon plasma		
Cu	1	20,000
Pb	2	10,000
Zn	1	20,000
Mo	1	20,000
Ag	0.2	50
Ni	1	20,000
Co	1	20,000
Cr	1	20,000
Mn	1	20,000
W	10	2,000
Fe	5	5,000
Bi	2	20,000
As	5	2,000
Sb	5	2,000
Hg	0.05	100
Ba	100	10,000